

Fall/Winter Catalog

LAMPS & BALLASTS

CFLs

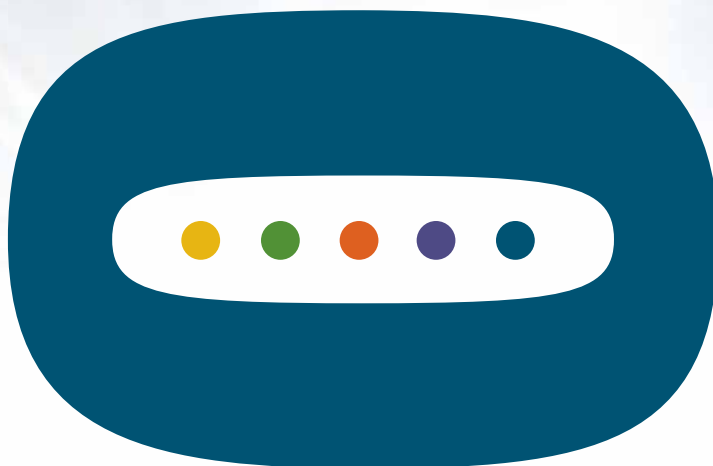
GU24 Base Lamps

Cold Cathodes

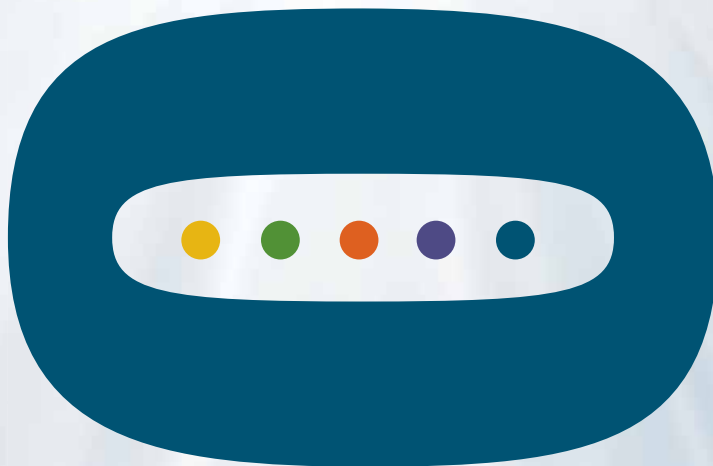
LEDs

HID Lamps

Linear Lamps & Ballasts



ONLY the **BEST**





As we near the end of one of the most dynamic years that I have ever experienced in the lighting industry, I want to thank all of TCP's associates, customers and friends for helping us to weather the storm that swept through our economy this past year. With everyone's drive and determination, TCP was able to regroup and forge ahead.

Despite the many challenges in 2009, TCP has managed to:

- Improve inventory availability
- Reduce lead times
- Launch several innovative products
- Improve service levels

All of which have strengthened its position in the marketplace.

I am excited as we near the end of 2009, ready to embark on a brand new year. I believe 2010 will be the best yet for TCP!

We will continue to solidify our metrics and improve in all areas that we can. Our product development team is working on more innovations to launch in 2010, and with the brightening financial outlook, TCP is poised to continue to lead the industry in the upcoming year.

I look forward to working with you in 2010. Experience TCP's energy efficient lighting products, and you will believe.

Our expertise is energy efficient lighting – our passion is our customers.

Sincerely,



Ellis Yan
CEO, TCP, Inc.



TCP is committed to providing high quality CFLs that are the benchmark in energy efficiency. TCP's compact fluorescent light bulbs use 75% less energy than standard incandescent bulbs and last up to 10 times longer. By selecting energy saving lighting, you will be working toward reducing your energy bills and significantly reducing greenhouse gases into our air.

TCP is proud to be
ENERGY STAR®
 Partner of the Year 2009.

S U S T A I N A B L E
 S O L U T I O N S
 C F L S
 L E D
 L A M P S
 E N E R G Y
 E F F I C I E N T
 L E S S
 G A S
 E M I S S I O N S



PARTNER OF THE YEAR

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2010 LAMPS & BALLASTS
 Fall/Winter Catalog

ONLY TCP

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SpringLight™ p28



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Full SpringLamps®

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InstaBright G2



TCP Pro Series Expect Great Things!

TCP Pro brand is our premium line of energy efficient lamps. While all our products are backed by the TCP quality promise, the TCP Pro product line is where we showcase our technological know-how as a global leader in the lighting industry.

Take a look at what we have to offer:

- Our innovative line up of full T3 SpringLamps (489 Series), feature **exclusive performance**, ultra-high efficiency, safety technology and longer life.
- Our **super-compact T2 CFLs** provide a smooth, comfortable light source that actually enhances the look of your premium lighting fixtures.
- **InstaBright** lamps start brighter, and achieve full brightness far faster than any other covered CFL.
- Our passion for design perfection results in a complete family of CFLs which offer **unsurpassed dimming** performance.
- Brilliantly engineered, **fully dimmable LED** lamps feature our exclusive omni-directional LED design arrangement, mimicking the look of a traditional incandescent deco lamp.

ONLY TCP



New Dimmable Series



*TCP Pro – delivering the latest
in lighting technology.*

ONLY the BEST!



T2 Full SpringLamps®
T2 FULL SPRINGLAMPS, ELECTRONIC, NPF, 12,000 HOUR, 120V, <150% THD

DESIGNED-2-FIT

| Item Number | ENERGY STAR® | Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type | Case Quantity |
|-------------|--------------|--|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|
| 4T213 | ★ | 13 Watt T2 Full SpringLamp | 13 | 60 | 825 | 2700 | 82 | 3.6 | 1.5 | E26 | 12 |
| 4T213C | | 13 Watt T2 Full SpringLamp Candelabra Base | 13 | 60 | 825 | 2700 | 82 | 3.5 | 1.5 | E12 | 12 |
| 4T213I | | 13 Watt T2 Full SpringLamp Intermediate Base | 13 | 60 | 825 | 2700 | 82 | 3.5 | 1.5 | E17 | 12 |
| 4T223 | ★ | 23 Watt T2 Full SpringLamp | 23 | 100 | 1600 | 2700 | 82 | 4.5 | 2.0 | E26 | 12 |


T2 Series - Designed-2-Fit

Features & Benefits

- Only TCP offers the industry's smallest CFL lamp, to fit into almost any lighting application.
- Outstanding lumen performance, plus 12,000 hour rated life.
- Improved lamp design provides more lighting surface area in a compact space, for better lighting output.

4T2 Series is available in the following color temperatures:

- 2700°K
- 3500°K
- 4100°K
- 5000°K

● 3 ½" of **WOW!**

489 Series Full SpringLamps®

| Item Number | ENERGY STAR® Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type | Case Quantity | |
|---|----------------------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|--|
| FULL SPRINGLAMPS, ELECTRONIC, NPF, 12,000 Hour, 120V, <150% THD | | | | | | | | | | | |
| 48905 | 5 Watt Full SpringLamp | 5 | 25 | 300 | 2700 | 82 | 3.0 | 1.9 | E26 | 12 | |
| 48905C | 5 Watt Full SpringLamp, E12 | 5 | 25 | 300 | 2700 | 82 | 2.9 | 1.9 | E12 | 12 | |
| 48909 | 9 Watt Full SpringLamp | 9 | 40 | 600 | 2700 | 82 | 3.6 | 1.8 | E26 | 12 | |
| 48909C | 9 Watt Full SpringLamp, E12 | 9 | 40 | 600 | 2700 | 82 | 3.5 | 1.8 | E12 | 12 | |
| 48913 | 13 Watt Full SpringLamp | 13 | 60 | 925 | 2700 | 82 | 3.9 | 1.8 | E26 | 12 | |
| 48913C | 13 Watt Full SpringLamp, E12 | 13 | 60 | 925 | 2700 | 82 | 3.8 | 1.8 | E12 | 12 | |
| 48918 | 18 Watt Full SpringLamp | 18 | 75 | 1300 | 2700 | 82 | 4.0 | 2.4 | E26 | 12 | |
| 48923 | 23 Watt Full SpringLamp | 23 | 100 | 1650 | 2700 | 82 | 4.4 | 2.4 | E26 | 12 | |
| 48927 | 27 Watt Full SpringLamp | 27 | 100 | 1850 | 2700 | 82 | 5.1 | 2.4 | E26 | 12 | |
| 48932 | 32 Watt Full SpringLamp | 32 | 125 | 2150 | 2700 | 82 | 5.1 | 2.7 | E26 | 12 | |
| 48942 | 42 Watt Full SpringLamp | 42 | 150 | 2850 | 2700 | 82 | 5.7 | 2.4 | E26 | 12 | |



489 Series - our Highest Performer!

489 Series is available in all color temperatures:

- 2700°K
- 3000°K
- 3500°K
- 4100°K
- 5000°K
- 6500°K
- Yellow Bug Light
- Red
- Blue
- Green
- Pink Phosphor

Features & Benefits:

- robust lamp structure improves durability
- End of life circuitry shuts bulb off automatically if it senses any lamp starting issues or end-of-life conditions.
- Innovative lateral cathode design optimizes thermal efficiency for improved lamp performance
- Nano-Ti pre-coats inside of the lamp, plus use of premium phosphor improves lamp lumen performance over the lifetime of the bulb



← **RADIAL SYMMETRY** lamp design provides more lighting surface area in a compact space, for better light output

← Ultra high-efficiency electronic ballast circuitry optimizes lamp start-up time and improves overall system performance. Efficiency is 6% higher than other CFL ballasts!

Dimmable

| Item Number | ENERGY STAR® Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type | Case Quantity |
|-------------|----------------------------------|--------------------|------------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|
|-------------|----------------------------------|--------------------|------------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|

TCP PRO SERIES DIMMABLE FULL SPRING LAMPS, HPF, 10,000 HOUR


| | | | | | | | | | | |
|-------|------------------------------|----|-----|------|------|----|-----|-----|-----|----|
| 40114 | 14 Watt Dimmable Full Spring | 14 | 60 | 850 | 2700 | 82 | 4.4 | 2.0 | E26 | 12 |
| 40123 | 23 Watt Dimmable Full Spring | 23 | 100 | 1500 | 2700 | 82 | 4.9 | 2.4 | E26 | 12 |

TCP PRO SERIES DIMMABLE COVERED LAMPS, HPF, 8,000 HOUR


| | | | | | | | | | | |
|-----------|----------------------|----|----|-----|------|----|-----|-----|-----|----|
| 2R2014DIM | 14 Watt R20 Dimmable | 14 | 50 | 410 | 2700 | 82 | 5.1 | 2.5 | E26 | 12 |
| 2R3016DIM | 16 Watt R30 Dimmable | 16 | 65 | 650 | 2700 | 82 | 5.4 | 3.7 | E26 | 12 |
| 2R4019DIM | 19 Watt R40 Dimmable | 19 | 85 | 900 | 2700 | 82 | 6.1 | 4.8 | E26 | 12 |
| 2G2514DIM | 14 Watt G25 Dimmable | 14 | 60 | 750 | 2700 | 82 | 5.2 | 3.1 | E26 | 6 |

NEW Pro Series Dimmable

These CFLs combine powerful performance with intelligent design. We created these new dimmable CFLs to meet the most demanding applications. Full dimming performance all the way down to 20% with no annoying flicker – that’s best in class performance!

Features & Benefits

- Uniform, smooth dimming performance from 100% to 20%.
- Optimized electronics maximizes lamp life and increases lumen output.

TCP Pro Dimmable Series is available in the following color temperatures:

- 2700°K
- 3000°K
- 3500°K
- 4100°K
- 5000°K
- 6500°K



| Item Number | ENERGY STAR® | Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type | Case Quantity |
|--|--------------|------------------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|
| TCP PRO SERIES INSTABRIGHT G2, NPF, 8000 HOUR | | | | | | | | | | | |
| 41314 | | 14watt A Lamp InstaBright G2 | 14 | 60 | 800 | 2700 | 82 | 4.4 | 2.4 | E26 | 12 |
| 4G2514 | ★ | 14watt G25 InstaBright G2 | 14 | 60 | 800 | 2700 | 82 | 4.4 | 3.1 | E26 | 6 |
| 4R2014 | | 14watt R20 InstaBright G2 | 14 | 50 | 410 | 2700 | 82 | 4.4 | 2.5 | E26 | 12 |
| 4R3014 | ★ | 14watt R30 InstaBright G2 | 14 | 65 | 650 | 2700 | 82 | 5.4 | 3.7 | E26 | 12 |



Bright Now!

InstaBright G2 - No Waiting



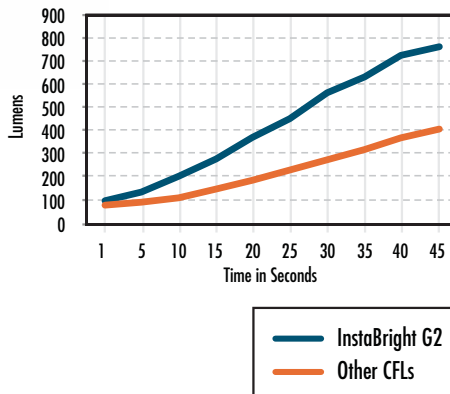
Features & Benefits

- Fastest run-up time and significantly improved light build up time, enhancing overall lighting performance
- Available in Globe, R30, R20 and A-Lamp shapes.
- Full brightness in seconds!

InstaBright G2 Series is available in the following color temperatures:

- 2700°K
- 3000°K
- 3500°K
- 4100°K
- 5000°K
- 6500°K

TCP is brighter faster!



**Dimmable
LED Deco
Lamps**
LED BULB LAMPS – CLEAR DECORATIVE, FULLY DIMMABLE, 25,000 HOURS | E12 BASE


| Item Number | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Voltage | MOL/Height (Inches) | Diameter | Color | Lamp Finish | Lumens | Base Type | STK or SPC |
|--------------|--|------------|---------------------------------|---------|---------------------|----------|---------------|-------------|--------|-----------|------------|
| LDCT3WH30K | LED 3 Watt Decorative Candelabra Torpedo, White (3000K) | 2.6 | 15 - 25 | 120 | 4.2 | 1.25 | White (3000K) | Clear | 92 | E12 | STK |
| LDCF3WH30K | LED 3 Watt Decorative Candelabra Flame, White (3000K) | 2.6 | 15 - 25 | 120 | 4.7 | 1.25 | White (3000K) | Clear | 85 | E12 | STK |
| LDCT3WH30KCC | LED 3 Watt Decorative Candelabra Torpedo, Crystal Cut, White (3000K) | 2.6 | 15-25 | 120 | 4.2 | 1.2 | White (3000K) | Crystal Cut | 85 | E12 | STK |
| LDCG163WH30K | LED 3 Watt G16.5 Candelabra Globe, White (3000K) | 2.6 | 15-25 | 120 | 2.8 | 2.0 | White (3000K) | Clear | 85 | E12 | STK |

3 YEAR WARRANTY


LED Dimmable Deco

Features & Benefits

- Uniform and smooth dimming down to 0%, using exclusive ballast driver circuitry.
- Long-lasting solid state LED design, featuring TCP exclusive omni-directional LED array for optimum light output and appeal; rated for 25,000 service hours.
- Built-in thermal and transient protection for optimum reliability and safer operation.
- Outdoor fixture capability due to UL Damp Location Rating.
- High power factor.
- RoHS Compliant.

Dimmable
LED Deco
Lamps

LED BULB LAMPS – CLEAR DECORATIVE, FULLY DIMMABLE, 25,000 HOURS | E26 BASE

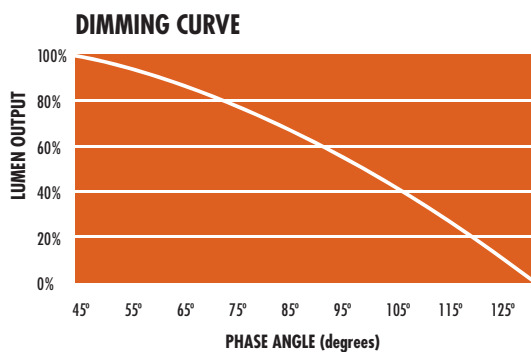
| Item Number | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Voltage | MOL/Height (Inches) | Diameter | Color | Lamp Finish | Lumens | Base Type | STK or SPC |
|-------------|---|------------|---------------------------------|---------|---------------------|----------|---------------|-------------|--------|-----------|------------|
| LDT3WH30K | LED 3 Watt Decorative Torpedo, White (3000K) | 2.6 | 15 - 25 | 120 | 4.2 | 1.25 | White (3000K) | Clear | 92 | E26 | STK |
| LDF3WH30K | LED 3 Watt Decorative Flame, White (3000K) | 2.6 | 15 - 25 | 120 | 4.7 | 1.25 | White (3000K) | Clear | 85 | E26 | STK |
| LDT3WH30KCC | LED 3 Watt Decorative Torpedo, Crystal Cut, White (3000K) | 2.6 | 15-25 | 120 | 4.2 | 1.25 | White (3000K) | Crystal Cut | 85 | E26 | STK |
| LDG163WH30K | LED 3 Watt G16.5 Globe, White (3000K) | 2.6 | 15-25 | 120 | 2.8 | 2.0 | White (3000K) | Clear | 85 | E26 | STK |
| LDA153WH30K | LED 3 Watt Decorative A-Lamp, White (3000K) | 2.6 | 15-25 | 120 | 4.2 | 2.0 | White (3000K) | Clear | 85 | E26 | STK |



These Lamps aren't just energy-efficient,
They're Brilliant!

These brilliantly engineered and designed lamps feature our exclusive omnidirectional LED design arrangement, which actually mimics the look of a traditional incandescent deco lamp. They look great and work even better.

- Accent and decorative lighting
- Chandeliers
- Ceiling Fans
- Indoor / Outdoor fixtures



OPTIMAL DIMMING WITH THREE OR MORE LAMPS.

Dimmable from
100% to 0.

These new LED Deco lamps also feature an industry exclusive – Full-Dimmability; and are perfect for applications such as chandeliers and decorative wall fixtures. They dim smoothly, all the way from 100% to 0%, without annoying flicker.





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TCP Pro

2010 LAMPS & BALUSTS
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TCP is committed to maintaining industry leadership in design and technology for energy efficient lighting applications, and we pride ourselves for providing value and outstanding customer support.

Pro Warranties

CFLs: Full SpringLamps® | InstaBright G2 | New Dimmable Series

InstaBright G2 8,000 Hour 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 (325 Campus Dr., Aurora, OH 44202) 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.

Pro Series Dimmable 10,000 Hour Lamps 15 months LIMITED WARRANTY

This TCP product is warranted for a period of 15 months 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 (325 Campus Dr., Aurora, OH 44202) along with the original sales receipt within 15 months 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.

489 Series | 4T2 Series 12,000 Hour Lamps 24 Months LIMITED WARRANTY

This TCP product is warranted for a period of 24 months 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 (325 Campus Dr., Aurora, OH 44202) along with the original sales receipt within 24 months 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.



Some of our products contain mercury.
Manage according to Local, State, or Federal Disposal Laws
See: www.lamprecycle.org or call 1-800-771-9335

LEDs: Dimmable Deco Lamps

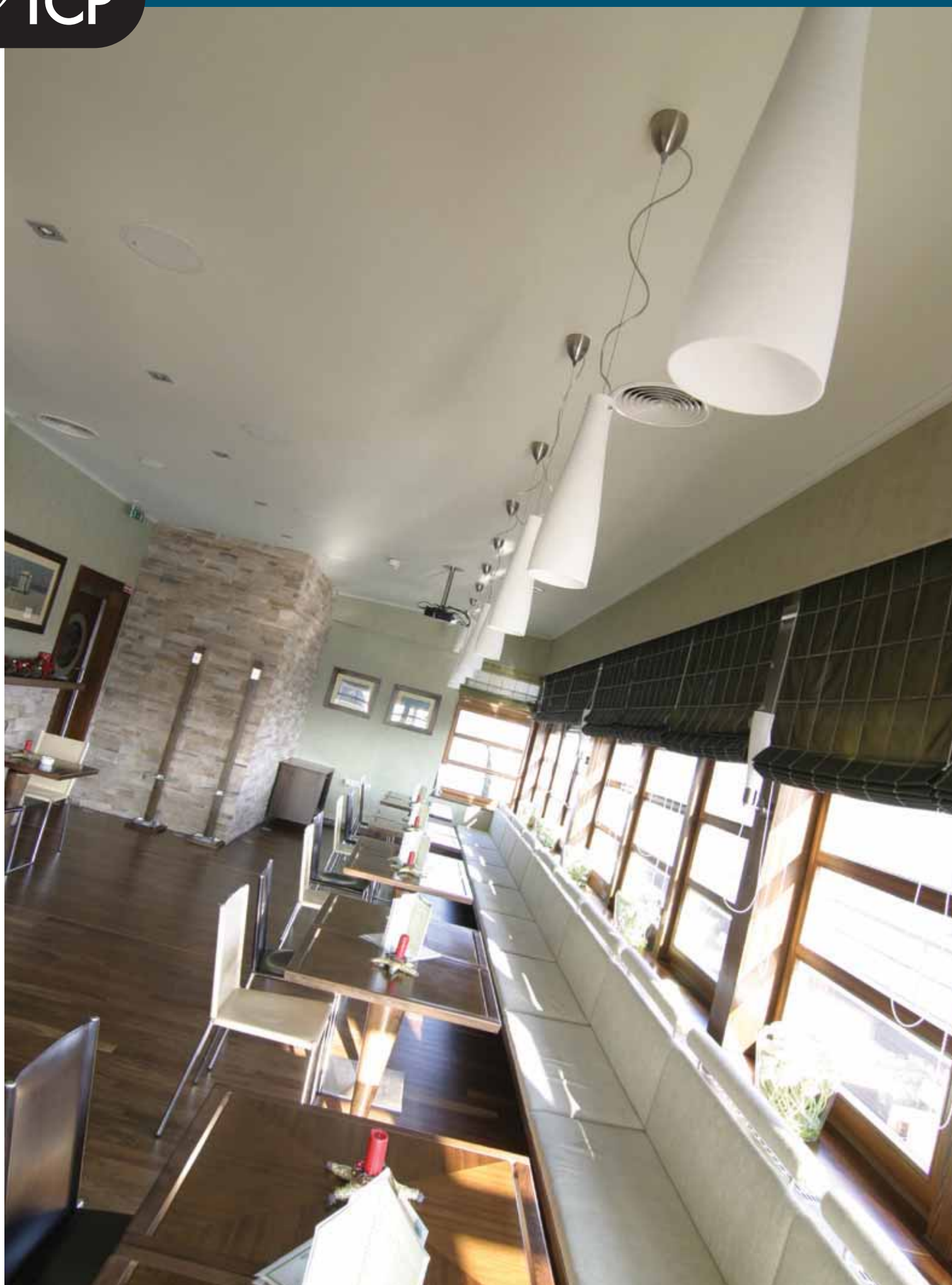
LIMITED WARRANTY

This TCP product is warranted for the period, as specified in each product section of this catalogue, from the date of purchase against defects in material and workmanship. If this product should fail to operate due to defects in material or workmanship, simply return this product to the place of purchase or to TCP Service Center (325 Campus Drive, Aurora, OH 44202) along with the original sales receipt within the number of years of purchase, as specified in each product section. 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.

With the high quality standards all our products must meet, you are guaranteed to have a lighting source that performs in the harshest environments. We've even established a UL client testing laboratory at our corporate headquarters to ensure the safety of every product you use. Our lab is ISO 17025 compliant.



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Compact Fluorescent Lamps

2010 LAMPS & BALLASTS
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TCP was built on compact fluorescent lightbulbs - they are the foundation of our product line. Being the leading manufacturer of CFLs in the world, TCP is constantly innovating this **energy efficient** lighting staple. You can count on our commitment to quality and consistency in all our SpringLamps®.

Applications:

Use CFLs anywhere – applications are endless!

CFLs

FEATURES / BENEFITS

- Smallest size of CFLs ever
- Quick-start technology
- Fast run-up time
- Proprietary glass and coating process
- High initial lumens
- Excellent lumen maintenance
- Cool, reliable operating temperature
- Wide range of options and accessories.

NEW PRO SERIES

Full SpringLamps®
InstaBright G2
New Dimmable Series



Torpedos



A-Lamps



Globes



Flat Pars



Circlines



Floods



GU Base

Specialty lighting application options

Specialty lamps are available as special order items. To order, use the TCP item # with the suffix listed after each specialty lamps description. Please call for availability. For full SPO listing, see page 60.

| OPTION | ORDER SUFFIX | AVAILABLE FOR: |
|------------------------------------|-------------------------------------|--|
| 3000K ● White | 30K | SpringLamp Series 489, 401, 28968(H)(277), GU Floodlight 4R, PF, GU Decorative 4G, 413, GU |
| 3100K ● | 31K | SpringLamp Series 289, 182 PL Lamps T6 Circline Floodlight 1R, 2R, 1P, 2P Decorative 1G, 2G, 1T, 113, 213, 107 |
| 3500K ● Bright White | 35K | SpringLamp Series 489, 4T2, 401, 28968(H)(277), 289, 280, 182, GU PL Lamps T6 Circline Floodlight 4R, PF, 1R, 2R, 1P, 2P, GU Decorative 4G, 413, 1G, 2G, 1T, 113, 213, 107, GU |
| 4100K ● Cool White | 41K | SpringLamp Series 489, 4T2, 401, 28968(H)(277), 289, 182, GU PL Lamps T6 Circline Floodlight 4R, PF, 1R, 2R, 1P, 2P, GU Decorative 4G, 413, 1G, 2G, 1T, 113, 213, 107, GU |
| 5000K ● Daylight | 50K | SpringLamp Series 489, 4T2, 401, 28968(H)(277), GU PL Lamps Floodlight 4R, PF, GU Decorative 4G, 413, GU |
| 5100K ● | 51K | SpringLamp Series 289, 182 T6 Circline Floodlight 1R, 2R, 1P, 2P Decorative 1G, 2G, 1T, 113, 213, 107 |
| 6500K ● | 65K | SpringLamp Series 489, 401, 289, 182 T6 Circline Floodlight 1R, 2R, PF, 1P, 2P, GU, 4R, PF Decorative 1G, 2G, 1T, 113, 213, 107, GU, 4G, 413 |
| Full Spectrum | FS | SpringLamp Series 489 |
| Pink/Soft Pink ● | P SP | SpringLamp Series 489, 401 Floodlight 4R, PF, 1R, 2R, 1P, 2P |
| Yellow ● | Y | SpringLamp Series 48909-48913 Flat Pars PF20, PF30, PF38 Decorative 113, 213, 413 |
| Green • Blue • Red ● ● ● | GR BL RD | SpringLamp Series 48909-48913 Flat Pars PF20, PF30, PF38 Decorative 113, 213, 413 |
| Long Neck | 1.65" 165 1.75" 175 2.25" 225 | SpringLamp Series 489, 401, 28968(H)(277), 289, 182 Floodlight 4R, PF, 1R, 2R, 1P, 2P |
| Permanent Installation | PERM | Special Order Call for availability |
| Shatter Resistant | SS | SpringLamp Series 489, 401, 289, 182 PL Lamps Floodlight 1R, 2R, 1P, 2P, PF |
| Wet Location | WL | SpringLamp Series 489, 289, 182 |

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Compact Fluorescent Lamps

2010 LAMPS & BALLASTS
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PRO SERIES

| Item Number | ENERGY STAR® | Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type | Case Quantity | Full SpringLamps® Dimmable InstaBright G2 |
|-------------|--------------|------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|---|
|-------------|--------------|------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|---|


TCP PRO SERIES T3 FULL SPRINGLAMPS, NPF, 12,000 HOUR

| | | | | | | | | | | | | |
|--------|--|------------------------------|----|-----|------|------|----|-----|-----|-----|----|---|
| 48905 | | 5 Watt Full SpringLamp | 5 | 25 | 300 | 2700 | 82 | 3.0 | 1.9 | E26 | 12 |  |
| 48905C | | 5 Watt Full SpringLamp, E12 | 5 | 25 | 300 | 2700 | 82 | 2.9 | 1.9 | E12 | 12 | |
| 48909 | | 9 Watt Full SpringLamp | 9 | 40 | 600 | 2700 | 82 | 3.6 | 1.8 | E26 | 12 | |
| 48909C | | 9 Watt Full SpringLamp, E12 | 9 | 40 | 600 | 2700 | 82 | 3.5 | 1.8 | E12 | 12 | |
| 48913 | | 13 Watt Full SpringLamp | 13 | 60 | 925 | 2700 | 82 | 3.9 | 1.8 | E26 | 12 | |
| 48913C | | 13 Watt Full SpringLamp, E12 | 13 | 60 | 925 | 2700 | 82 | 3.8 | 1.8 | E12 | 12 | |
| 48918 | | 18 Watt Full SpringLamp | 18 | 75 | 1300 | 2700 | 82 | 4.0 | 2.4 | E26 | 12 | |
| 48923 | | 23 Watt Full SpringLamp | 23 | 100 | 1650 | 2700 | 82 | 4.4 | 2.4 | E26 | 12 | |
| 48927 | | 27 Watt Full SpringLamp | 27 | 100 | 1850 | 2700 | 82 | 5.1 | 2.4 | E26 | 12 | |
| 48932 | | 32 Watt Full SpringLamp | 32 | 125 | 2150 | 2700 | 82 | 5.1 | 2.7 | E26 | 12 | |
| 48942 | | 42 Watt Full SpringLamp | 42 | 150 | 2850 | 2700 | 82 | 5.7 | 2.4 | E26 | 12 | |


TCP PRO SERIES T2 FULL SPRINGLAMPS, NPF, 12,000 HOUR

| | | | | | | | | | | | | |
|--------|---|--------------------------------|----|-----|------|------|----|-----|-----|-----|----|---|
| 4T213 | ★ | 13 Watt T2 Full SpringLamp | 13 | 60 | 825 | 2700 | 82 | 3.6 | 1.5 | E26 | 12 |  |
| 4T213C | | 13 Watt T2 Full SpringLamp E12 | 13 | 60 | 825 | 2700 | 82 | 3.5 | 1.5 | E12 | 12 | |
| 4T213I | | 13 Watt T2 Full SpringLamp E17 | 13 | 60 | 825 | 2700 | 82 | 3.5 | 1.5 | E17 | 12 | |
| 4T223 | ★ | 23 Watt T2 Full SpringLamp | 23 | 100 | 1600 | 2700 | 82 | 4.5 | 2.0 | E26 | 12 | |


TCP PRO SERIES DIMMABLE FULL SPRINGLAMPS, HPF, 10,000 HOUR

| | | | | | | | | | | | | |
|-------|--|------------------------------|----|-----|------|------|----|-----|-----|-----|----|---|
| 40114 | | 14 Watt Dimmable Full Spring | 14 | 60 | 850 | 2700 | 82 | 4.4 | 2.0 | E26 | 12 |  |
| 40123 | | 23 Watt Dimmable Full Spring | 23 | 100 | 1500 | 2700 | 82 | 4.9 | 2.4 | E26 | 12 | |

TCP PRO SERIES DIMMABLE COVERED LAMPS, HPF, 8,000 HOUR

| | | | | | | | | | | | | |
|-----------|--|----------------------|----|----|-----|------|----|-----|-----|-----|----|---|
| 2R2014DIM | | 14 Watt R20 Dimmable | 14 | 50 | 410 | 2700 | 82 | 5.1 | 2.5 | E26 | 12 |  |
| 2R3016DIM | | 16 Watt R30 Dimmable | 16 | 65 | 650 | 2700 | 82 | 5.4 | 3.7 | E26 | 12 | |
| 2R4019DIM | | 19 Watt R40 Dimmable | 19 | 85 | 900 | 2700 | 82 | 6.1 | 4.8 | E26 | 12 | |
| 2G2514DIM | | 14 Watt G25 Dimmable | 14 | 60 | 750 | 2700 | 82 | 5.2 | 3.1 | E26 | 6 | |

TCP PRO SERIES INSTABRIGHT G2, NPF, 8000 HOUR

| | | | | | | | | | | | | |
|--------|---|------------------------------|----|----|-----|------|----|-----|-----|-----|----|---|
| 4R2014 | | 14watt R20 InstaBright G2 | 14 | 50 | 410 | 2700 | 82 | 4.4 | 2.5 | E26 | 12 |  |
| 4R3014 | ★ | 14watt R30 InstaBright G2 | 14 | 65 | 650 | 2700 | 82 | 5.4 | 3.7 | E26 | 12 | |
| 4I314 | | 14watt A Lamp InstaBright G2 | 14 | 60 | 800 | 2700 | 82 | 4.4 | 2.4 | E26 | 12 | |
| 4G2514 | ★ | 14watt G25 InstaBright G2 | 14 | 60 | 800 | 2700 | 82 | 4.4 | 3.1 | E26 | 6 | |

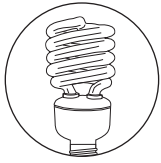
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2010 LAMPS & BALLASTS
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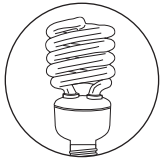
One-Piece SpringLamps

SPRINGLAMPS, ELECTRONIC, NPF, 10,000 HOUR, <150% THD



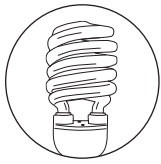
| Item Number | ENERGY STAR® | Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type | Case Quantity |
|-------------|--------------|--------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|
| 28968 | ★ | 68 Watt SpringLamp | 68 | 300 | 4200 | 2700 | 82 | 9.5 | 4.1 | E26 | 6 |

SPRINGLAMPS, ELECTRONIC, NPF, 10,000 HOUR, MOGUL BASE, <150% THD



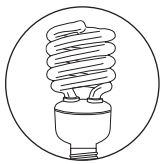
| | | | | | | | | | | | |
|--------|--|-------------------------------|----|-----|------|------|----|-----|-----|-------|----|
| 28927H | | 27 Watt SpringLamp Mogul Base | 27 | 100 | 1850 | 2700 | 82 | 6.2 | 2.8 | Mogul | 12 |
| 28932H | | 32 Watt SpringLamp Mogul Base | 32 | 125 | 2200 | 2700 | 82 | 6.6 | 2.8 | Mogul | 12 |
| 28942H | | 42 Watt SpringLamp Mogul Base | 42 | 150 | 2800 | 2700 | 82 | 7.0 | 2.8 | Mogul | 12 |
| 28968H | | 68 Watt SpringLamp Mogul Base | 68 | 300 | 4200 | 2700 | 82 | 9.8 | 4.1 | Mogul | 6 |

SPRINGLAMPS, ELECTRONIC, NPF, 10,000 HOUR, 277V, <150% THD



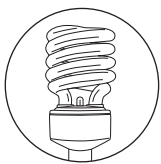
| | | | | | | | | | | | |
|----------|--|-----------------------------|----|-----|------|------|----|-----|-----|-----|----|
| 28927277 | | 27 Watt SpringLamp 277 Volt | 27 | 100 | 1850 | 2700 | 82 | 6.0 | 2.8 | E26 | 12 |
| 28932277 | | 32 Watt SpringLamp 277 Volt | 32 | 125 | 2200 | 2700 | 82 | 6.0 | 2.8 | E26 | 12 |
| 28942277 | | 42 Watt SpringLamp 277 Volt | 42 | 150 | 2800 | 2700 | 82 | 7.0 | 2.8 | E26 | 12 |
| 28968277 | | 68 Watt SpringLamp 277 Volt | 68 | 300 | 4200 | 2700 | 82 | 9.5 | 4.1 | E26 | 6 |

SPRINGLAMPS, ELECTRONIC, NPF, 10,000 HOUR, MOGUL BASE, 277V, <150% THD



| | | | | | | | | | | | |
|-----------|--|--|----|-----|------|------|----|-----|-----|-------|----|
| 28927H277 | | 27 Watt SpringLamp Mogul Base 277 Volt | 27 | 100 | 1850 | 2700 | 82 | 6.2 | 2.8 | Mogul | 12 |
| 28932H277 | | 32 Watt SpringLamp Mogul Base 277 Volt | 32 | 125 | 2200 | 2700 | 82 | 6.6 | 2.8 | Mogul | 12 |
| 28942H277 | | 42 Watt SpringLamp Mogul Base 277 Volt | 42 | 150 | 2800 | 2700 | 82 | 7.0 | 2.8 | Mogul | 12 |
| 28968H277 | | 68 Watt SpringLamp Mogul Base 277 Volt | 68 | 300 | 4200 | 2700 | 82 | 9.8 | 4.1 | Mogul | 6 |

3-WAY SPRINGLAMPS, ELECTRONIC, 10,000 HOUR, <150% THD



| | | | | | | | | | | | |
|----------|---|-------------------------------------|----------|--------------------|---------------|------|----|-----|-----|-----|----|
| 19030LED | | 19/30/1 Watt 3-Way w/LED Nightlight | 19/30/1 | 75/120/night-light | 1300/1850/8 | 2700 | 82 | 5.3 | 2.8 | E26 | 12 |
| 19032 | ★ | 14/19/32 Watt 3-Way Springlamp | 14/19/32 | 40/75/150 | 750/1400/2150 | 2700 | 82 | 6.8 | 2.8 | E26 | 12 |

HPF SPRINGLAMPS, ELECTRONIC, 10,000 HOUR, <33% THD



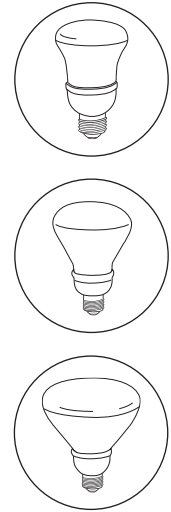
| | | | | | | | | | | | |
|-------|---|-------------------------|----|-----|------|------|----|-----|-----|-----|----|
| 18209 | | 9 Watt SpringLamp | 9 | 40 | 500 | 2700 | 82 | 4.1 | 1.9 | E26 | 12 |
| 18214 | ★ | 14 Watt Mini-SpringLamp | 14 | 60 | 800 | 2700 | 82 | 4.5 | 1.9 | E26 | 12 |
| 18220 | ★ | 20 Watt SpringLamp | 20 | 75 | 1100 | 2700 | 82 | 4.7 | 2.4 | E26 | 12 |
| 18223 | | 23 Watt SpringLamp | 23 | 90 | 1400 | 2700 | 82 | 4.9 | 2.4 | E26 | 12 |
| 18227 | | 27 Watt SpringLamp | 27 | 100 | 1600 | 2700 | 82 | 5.4 | 2.4 | E26 | 12 |

| Item Number | ENERGY STAR® Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type | Case Quantity |
|-------------|----------------------------------|--------------------|---------------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|
|-------------|----------------------------------|--------------------|---------------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|

**Floods
A-Lamps**

1-PIECE REFLECTORS, WET LOCATION RATED, ELECTRONIC, NPF, 8,000 HOUR (CONTINUED ON NEXT PAGE)

| | | | | | | | | | | |
|--------|----------------------------|----|-----|------|------|----|-----|-----|-----|----|
| 1R2004 | 4 Watt R20 Floodlight | 4 | 15 | 180 | 2700 | 82 | 3.8 | 2.5 | E26 | 6 |
| 1R2009 | ★ 9 Watt R20 Floodlight | 9 | 25 | 400 | 2700 | 82 | 3.8 | 2.5 | E26 | 6 |
| 1R2014 | ★ 14 Watt R20 Floodlight | 14 | 50 | 500 | 2700 | 82 | 4.3 | 2.5 | E26 | 12 |
| 2R3014 | ★ 14 Watt R30 Floodlight | 14 | 65 | 650 | 2700 | 82 | 5.4 | 3.7 | E26 | 12 |
| 2R3016 | ★ 16 Watt R30 Floodlight | 16 | 75 | 750 | 2700 | 82 | 5.7 | 3.7 | E26 | 12 |
| 1R4016 | ★ 16 Watt R40 Floodlight | 16 | 75 | 750 | 2700 | 82 | 5.7 | 4.7 | E26 | 12 |
| 1R4019 | ★ 19 Watt R40 Floodlight | 19 | 85 | 950 | 2700 | 82 | 5.9 | 4.7 | E26 | 12 |
| 1R4023 | ★ 23 Watt R40 Floodlight | 23 | 120 | 1200 | 2700 | 82 | 6.2 | 4.7 | E26 | 12 |
| 1P3016 | 16 Watt PAR30 Floodlight | 16 | 75 | 750 | 2700 | 82 | 5.7 | 3.7 | E26 | 12 |
| 1P3816 | ★ 16 Watt PAR38 Floodlight | 16 | 75 | 750 | 2700 | 82 | 5.9 | 4.7 | E26 | 12 |
| 2P3819 | 19 Watt PAR38 Floodlight | 19 | 85 | 950 | 2700 | 82 | 5.9 | 4.7 | E26 | 12 |
| 1P3823 | ★ 23 Watt PAR38 Floodlight | 23 | 90 | 1200 | 2700 | 82 | 6.2 | 4.8 | E26 | 12 |



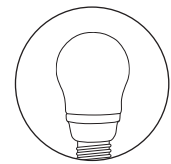
1-PIECE FLAT PAR REFLECTORS, WET LOCATION RATED, ELECTRONIC, NPF, 8,000 HOUR

| | | | | | | | | | | |
|--------|-----------------------------------|----|----|------|------|----|-----|-----|-----|----|
| PF2014 | 14 Watt Flat Par20 Floodlight | 14 | 30 | 350 | 2700 | 82 | 4.3 | 2.5 | E26 | 12 |
| PF2414 | 14 Watt Flat Par24 Floodlight | 14 | 30 | 440 | 2700 | 82 | 4.7 | 3.0 | E26 | 12 |
| PF3016 | 16 Watt Flat Par30 Floodlight | 16 | 60 | 700 | 2700 | 82 | 5.0 | 3.7 | E26 | 12 |
| PF3823 | 23 Watt Flat Par PAR38 Floodlight | 23 | 75 | 1000 | 2700 | 82 | 5.4 | 4.8 | E26 | 12 |



A-LAMP, ELECTRONIC, NPF, 8,000 HOUR

| | | | | | | | | | | |
|--------|-------------------------|----|-----|------|------|-----|-----|-----|-----|----|
| 11304 | 4 Watt A-Lamp | 4 | 25 | 225 | 2700 | 82 | 3.8 | 1.7 | E26 | 12 |
| 11309 | ★ 9 Watt A-Lamp | 9 | 40 | 450 | 2700 | 82 | 3.8 | 1.9 | E26 | 12 |
| 21314 | ★ 14 Watt A-Lamp | 14 | 60 | 800 | 2700 | 82 | 4.4 | 2.4 | E26 | 12 |
| 11316 | ★ 16 Watt A-Lamp | 16 | 60 | 900 | 2700 | 82 | 5.9 | 2.7 | E26 | 12 |
| 11319 | ★ 19 Watt A-Lamp | 19 | 60 | 1000 | 2700 | 82 | 5.9 | 2.7 | E26 | 12 |
| 11323 | 23 Watt A-Lamp | 23 | 100 | 1200 | 2700 | 82 | 6.6 | 2.7 | E26 | 12 |
| 21314Y | 14 Watt A-Lamp BugLight | 14 | 60 | 600 | 2300 | N/A | 4.4 | 2.4 | E26 | 12 |



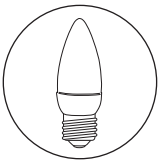
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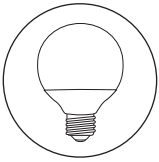
Torpedos Globes T-Capsules

TORPEDO LAMP, ELECTRONIC, NPF, 8,000 HOUR



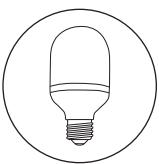
| Item Number | ENERGY STAR® | Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type | Case Quantity |
|-------------|--------------|---------------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|
| 10702 | | 2 Watt Torpedo | 2 | 10 | 80 | 2700 | 82 | 4.4 | 1.4 | E26 | 12 |
| 10702C | | 2 Watt Torpedo CAND | 2 | 10 | 80 | 2700 | 82 | 4.4 | 1.4 | E12 | 12 |
| 10704 | | 4 Watt Torpedo | 4 | 15 | 195 | 2700 | 82 | 4.4 | 1.4 | E26 | 12 |
| 10704C | | 4 Watt Torpedo CAND | 4 | 15 | 195 | 2700 | 82 | 4.4 | 1.4 | E12 | 12 |
| 10709 | | 9 Watt Torpedo | 9 | 40 | 425 | 2700 | 82 | 4.8 | 1.7 | E26 | 12 |
| 10709C | | 9 Watt Torpedo Lamp | 9 | 40 | 425 | 2700 | 82 | 4.8 | 1.7 | E12 | 12 |
| 10714 | | 14 Watt Torpedo Lamp | 14 | 60 | 720 | 2700 | 82 | 5.4 | 1.7 | E26 | 12 |
| 10714C | | 14 Watt Torpedo Lamp CAND | 14 | 60 | 720 | 2700 | 82 | 5.4 | 1.7 | E12 | 12 |

GLOBE LAMP, ELECTRONIC, 8,000 HOUR



| | | | | | | | | | | | |
|---------|---|-----------------------|----|-----|------|------|----|-----|-----|-----|----|
| 1G1002 | | 2 Watt G10 Globe | 2 | 10 | 80 | 2700 | 82 | 3.0 | 1.5 | E26 | 24 |
| 1G1002C | | 2 Watt G10 Globe CAND | 2 | 10 | 80 | 2700 | 82 | 3.0 | 1.5 | E12 | 24 |
| 1G2002 | | 2 Watt G20 Globe | 2 | 15 | 170 | 2700 | 82 | 3.6 | 2.5 | E26 | 12 |
| 1G2002C | | 2 Watt G20 Globe CAND | 2 | 15 | 170 | 2700 | 82 | 3.6 | 2.5 | E12 | 12 |
| 1G2004 | | 4 Watt G20 Globe | 4 | 25 | 210 | 2700 | 82 | 3.6 | 2.5 | E26 | 12 |
| 1G2004C | | 4 Watt G20 Globe CAND | 4 | 25 | 210 | 2700 | 82 | 3.6 | 2.5 | E12 | 12 |
| 1G2504 | ★ | 4 Watt G25 Globe | 4 | 25 | 250 | 2700 | 82 | 4.0 | 3.1 | E26 | 12 |
| 1G2504C | | 4 Watt G25 Globe CAND | 9 | 40 | 250 | 2700 | 82 | 4.0 | 3.1 | E12 | 12 |
| 1G2509 | ★ | 9 Watt G25 Globe | 9 | 40 | 520 | 2700 | 82 | 4.4 | 3.1 | E26 | 12 |
| 1G2509C | | 9 Watt G25 Globe CAND | 9 | 40 | 520 | 2700 | 82 | 4.4 | 3.1 | E12 | 12 |
| 2G2514 | ★ | 14 Watt G25 Globe | 14 | 60 | 800 | 2700 | 82 | 4.4 | 3.1 | E26 | 12 |
| 1G3009 | | 9 Watt G30 Globe | 9 | 40 | 495 | 2700 | 82 | 5.0 | 3.7 | E26 | 12 |
| 1G3014 | ★ | 14 Watt G30 Globe | 14 | 60 | 800 | 2700 | 82 | 5.0 | 3.7 | E26 | 12 |
| 1G3019 | ★ | 19 Watt G30 Globe | 19 | 75 | 1100 | 2700 | 82 | 5.0 | 3.7 | E26 | 12 |
| 1G3023 | | 23 Watt G30 Globe | 23 | 100 | 1200 | 2700 | 82 | 5.9 | 3.7 | E26 | 12 |
| 1G4014 | ★ | 14 Watt G40 Globe | 14 | 60 | 800 | 2700 | 82 | 6.8 | 5.0 | E26 | 12 |
| 1G4019 | ★ | 19 Watt G40 Globe | 19 | 75 | 1100 | 2700 | 82 | 6.8 | 5.0 | E26 | 12 |
| 1G4023 | | 23 Watt G40 Globe | 23 | 100 | 1300 | 2700 | 82 | 6.8 | 5.2 | E26 | 12 |

T-CAPSULE LAMP, ELECTRONIC, 8,000 HOUR



| | | | | | | | | | | | |
|--------|---|---------------------|----|-----|------|------|----|-----|-----|-----|----|
| 1T2004 | ★ | 4 Watt T20 Capsule | 4 | 25 | 250 | 2700 | 82 | 4.8 | 2.5 | E26 | 12 |
| 1T2009 | ★ | 9 Watt T20 Capsule | 9 | 40 | 520 | 2700 | 82 | 5.0 | 2.5 | E26 | 12 |
| 1T2014 | ★ | 14 Watt T20 Capsule | 14 | 60 | 800 | 2700 | 82 | 5.4 | 2.5 | E26 | 12 |
| 1T2409 | ★ | 9 Watt T24 Capsule | 9 | 40 | 520 | 2700 | 82 | 5.2 | 2.8 | E26 | 6 |
| 1T2414 | ★ | 14 Watt T24 Capsule | 14 | 60 | 900 | 2700 | 82 | 5.2 | 2.8 | E26 | 6 |
| 1T2419 | | 19 Watt T24 Capsule | 19 | 75 | 1100 | 2700 | 82 | 5.6 | 2.8 | E26 | 6 |
| 1T2423 | | 23 Watt T24 Capsule | 23 | 100 | 1200 | 2700 | 82 | 6.3 | 2.8 | E26 | 6 |

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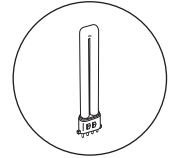
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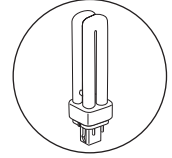
| Item Number | ENERGY STAR® Item Description | Unit/Ballast Watts | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type | PL Lamps |
|-------------|----------------------------------|--------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|----------|
|-------------|----------------------------------|--------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|----------|

TWIN TUBE PL LAMPS, 10,000 HOUR

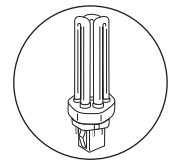
| | | | | | | | | |
|-----------|---------------------------------------|----|-----|------|----|-----|-----|------|
| 32005 | 5 Watt 2-Pin Twin Tube | 5 | 250 | 2700 | 82 | 4.1 | 1.3 | G23 |
| 32007 | 7 Watt 2-Pin Twin Tube | 7 | 410 | 2700 | 82 | 5.3 | 1.3 | G23 |
| 32009 | 9 Watt 2-Pin Twin Tube | 9 | 590 | 2700 | 82 | 6.4 | 1.3 | G23 |
| 32013 | 13 Watt 2-Pin Twin Tube | 13 | 800 | 2700 | 82 | 6.9 | 1.3 | GX23 |
| 32013IST | 13 Watt 2-Pin Twin Tube Instant Start | 13 | 800 | 2700 | 82 | 6.9 | 1.3 | GX23 |
| 324132GX7 | 13 Watt 4-Pin Twin Tube | 13 | 800 | 2700 | 82 | 7.1 | 1.3 | 2GX7 |


QUAD TUBE PL LAMPS, 10,000 HOUR

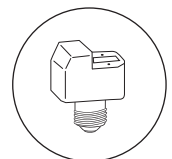
| | | | | | | | | |
|----------|---------------------------------------|----|------|------|----|-----|-----|---------|
| 32009Q | 9 Watt 2-Pin Quad Tube | 9 | 590 | 2700 | 82 | 4.3 | 1.4 | G23-2 |
| 32013Q | 13 Watt 2-Pin Quad Tube | 13 | 810 | 2700 | 82 | 5.2 | 1.4 | GX23-2 |
| 32013ISQ | 13 Watt 2-Pin Quad Tube Instant Start | 13 | 810 | 2700 | 82 | 4.5 | 1.4 | GX23-2 |
| 32018Q | 18 Watt 2-Pin Quad Tube | 18 | 1150 | 2700 | 82 | 6.0 | 1.4 | G24d-2 |
| 32026Q | 26 Watt 2-Pin Quad Tube | 26 | 1700 | 2700 | 82 | 6.6 | 1.4 | G24d-3 |
| 32413Q | 13 Watt 4-Pin Quad Tube | 13 | 875 | 2700 | 82 | 5.2 | 1.4 | G24q-1 |
| 32418Q | 18 Watt 4-Pin Quad Tube | 18 | 1150 | 2700 | 82 | 6.6 | 1.4 | G24q-2 |
| 32426Q | 26 Watt 4-Pin Quad Tube | 26 | 1700 | 2700 | 82 | 6.3 | 1.4 | G24q-3 |
| 32022Q | 22 Watt 2-Pin Quad Tube | 22 | 1350 | 2700 | 82 | 5.8 | 1.7 | GX32D-2 |
| 32028Q | 28 Watt 2-Pin Quad Tube | 28 | 1800 | 2700 | 82 | 6.5 | 1.7 | GX32D-3 |


TRIPLE TUBE PL LAMPS, 10,000 HOUR

| | | | | | | | | |
|--------|---------------------------|----|------|------|----|-----|-----|---------|
| 32418T | 18 Watt 4-Pin Triple Tube | 18 | 1150 | 2700 | 82 | 4.3 | 1.4 | GX24q-2 |
| 32426T | 26 Watt 4-Pin Triple Tube | 26 | 1700 | 2700 | 82 | 4.8 | 1.6 | GX24q-3 |
| 32432T | 32 Watt 4-Pin Triple Tube | 32 | 2000 | 2700 | 82 | 5.5 | 1.6 | GX24q-3 |
| 32442T | 42 Watt 4-Pin Triple Tube | 42 | 2600 | 2700 | 82 | 6.0 | 1.6 | GX24q-4 |


SCREW IN MAGNETIC ADAPTERS, 50,000 HOUR

| | | | | | | | | |
|---------|-------------------------------------|----|-----|-----|-----|-----|-----|-----|
| 10405 | 5 Watt Center Mount Adapter | 5 | N/A | N/A | N/A | 3.3 | 2.4 | E26 |
| 10407 | 7 Watt Center Mount Adapter | 7 | N/A | N/A | N/A | 3.3 | 2.4 | E26 |
| 10409 | 9 Watt Center Mount Adapter | 9 | N/A | N/A | N/A | 3.3 | 2.4 | E26 |
| 10413 | 13 Watt Center Mount Adapter | 13 | N/A | N/A | N/A | 3.3 | 2.4 | E26 |
| 10505 | 5 Watt Side Mount Adapter | 5 | N/A | N/A | N/A | 3.3 | 2.4 | E26 |
| 10507 | 7 Watt Side Mount Adapter | 7 | N/A | N/A | N/A | 3.3 | 2.4 | E26 |
| 10509 | 9 Watt Side Mount Adapter | 9 | N/A | N/A | N/A | 3.3 | 2.4 | E26 |
| 10513 | 13 Watt Side Mount Adapter | 13 | N/A | N/A | N/A | 3.3 | 2.8 | E26 |
| 10413AD | 13 Watt Adapter with Reflector Ring | 13 | N/A | N/A | N/A | 4.0 | 2.3 | E26 |
| 14513 | 13 Watt Low Profile Adapter | 13 | N/A | N/A | N/A | 3.0 | 2.7 | E26 |



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Circline

| Item Number | ENERGY STAR® | Item Description | Unit/Ballast Watts | Lamp Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Replacement Bracket | Replacement Lamp | Base Type |
|---|--------------|--|--------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|---------------------|------------------|-----------|
| T6 CIRCLINE ADAPTERS WITH LAMPS, ELECTRONIC, HPF, 10,000 HOUR, 2850K | | | | | | | | | | | | | |
| | 1252218 | 22 Watt Circline Adapter with 18 Watt Lamp | 22 | 18 | 75 | 1200 | 2850 | 82 | 3.7 | 5.8 | 13818B | 32018 | E26 |
| | 1253027 | 30 Watt Circline Adapter with 27 Watt Lamp | 30 | 27 | 120 | 2000 | 2850 | 82 | 3.7 | 7.5 | 13827B | 32027 | E26 |
| | 1253632 | 36 Watt Circline Adapter with 32 Watt Lamp | 36 | 32 | 130 | 2200 | 2850 | 82 | 3.7 | 9.0 | 13832B | 32032 | E26 |
| T6 CIRCLINE ADAPTERS WITH LAMPS, ELECTRONIC, NPF, 10,000 HOUR, 2850K | | | | | | | | | | | | | |
| | 1702218 | 22 Watt Circline Adapter with 18 Watt Lamp | 22 | 18 | 75 | 1200 | 2850 | 82 | 3.7 | 5.8 | 13818B | 32018 | E26 |
| | 1703027 | 30 Watt Circline Adapter with 27 Watt Lamp | 30 | 27 | 120 | 2000 | 2850 | 82 | 3.7 | 7.5 | 13827B | 32027 | E26 |
| | 1703632 | 36 Watt Circline Adapter with 32 Watt Lamp | 36 | 32 | 130 | 2200 | 2850 | 82 | 3.7 | 9.0 | 13832B | 32032 | E26 |
| | 17033L | 33 Watt Circline Adapter with Lamp | 33 | 33 | 125 | 2000 | 2850 | 82 | 3.5 | 5.5 | 13833B2 | 32033 | E26 |
| | 17040L | 40 Watt Circline Adapter with Lamp | 40 | 40 | 150 | 2800 | 2850 | 82 | 3.7 | 7.5 | 13818B | 32040 | E26 |
| | 17058L | 58 Watt Circline Adapter with Lamp | 58 | 58 | 200 | 3700 | 2850 | 82 | 3.7 | 9.0 | 13858B | 32058 | E26 |
| T6 3-WAY CIRCLINE ADAPTERS WITH LAMP, ELECTRONIC, NPF, 10,000 HOUR | | | | | | | | | | | | | |
| | 1653332 | 33 Watt Circline Adapter with 32 Watt Lamp | 33 | 32 | 120 | 2050 | 2850 | 82 | 3.5 | 9.0 | 138302B | 32032 | E26 |
| | 16533L | 33 Watt Circline Adapter with Lamp | 33 | 10/20/33 | 50/100/150 | 2150 | 2850 | 82 | 3.5 | 5.5 | 13833B2 | 32033 | E26 |
| | 16550L | 50 Watt Circline Adapter with Lamp | 50 | 22/33/55 | 90/120/150 | 2500 | 2850 | 82 | 4.8 | 7.5 | 13818 13827BH | 32018/ 32027 | E26 |
| T6 CIRCLINE 2D REPLACEMENT LAMPS, 10,000 HOUR, 2850K | | | | | | | | | | | | | |
| | 320402D | 40 Watt Lamp with 2D Boot | NA | 40 | 150 | 2800 | 2850 | 82 | 0.8 | 7.5 | N/A | N/A | N/A |
| | 320582D | 58 Watt Lamp with 2D Boot | NA | 58 | 200 | 3700 | 2850 | 82 | 0.8 | 9.0 | N/A | N/A | N/A |
| T6 CIRCLINE LAMPS, 2850K | | | | | | | | | | | | | |
| | 32018 | 18 Watt Circline Lamp | NA | 18 | 75 | 1200 | 2850 | 82 | 0.8 | 5.7 | 13818B | N/A | N/A |
| | 32027 | 27 Watt Circline Lamp | NA | 27 | 120 | 2000 | 2850 | 82 | 0.8 | 7.5 | 13827B | N/A | N/A |
| | 32032 | 32 Watt Circline Lamp | NA | 32 | 130 | 2200 | 2850 | 82 | 0.8 | 9.0 | 13832B | N/A | N/A |
| | 32033 | 33 Watt Circline Lamp | NA | 33 | 125 | 2150 | 2850 | 82 | 1.8 | 5.5 | 13833B2 | N/A | N/A |
| | 32040 | 40 Watt Circline Lamp | NA | 40 | 150 | 2800 | 2850 | 82 | 0.8 | 7.5 | 13818B | N/A | N/A |
| | 32058 | 58 Watt Circline Lamp | NA | 58 | 200 | 3700 | 2850 | 82 | 0.8 | 9.0 | 13858B | N/A | N/A |

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Compact Fluorescent Lamps

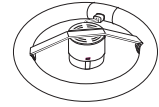
2010 LAMPS & BALLASTS
Fall/Winter Catalog

| Item Number | ENERGY STAR® Item Description | Unit/Ballast Watts | Lamp Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Replacement Bracket | Replacement Lamp | Base Type |
|-------------|----------------------------------|--------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|---------------------|------------------|-----------|
|-------------|----------------------------------|--------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|---------------------|------------------|-----------|

Circline

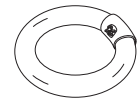
T9 CIRCLINE ADAPTERS WITH LAMP, ELECTRONIC, HPF, 10,000 HOUR, 2850K

| | | | | | | | | | | | | |
|---------|--|----|----|-----|------|------|----|-----|-----|--------|-------|-----|
| 1702220 | 22 Watt Circline Adapter with 20 Watt Lamp | 22 | 20 | 75 | 1200 | 2850 | 82 | 3.7 | 6.0 | 13820B | 32020 | E26 |
| 17022L | 22 Watt Circline Adapter with 22 Watt Lamp | 22 | 22 | 90 | 1400 | 2850 | 82 | 3.7 | 8.0 | 13822B | 32022 | E26 |
| 17030L | 30 Watt Circline Adapter with 30 Watt Lamp | 30 | 30 | 120 | 2000 | 2850 | 82 | 3.7 | 9.0 | 13830B | 32030 | E26 |
| 1703630 | 36 Watt Circline Adapter with 30 Watt Lamp | 36 | 30 | 125 | 2100 | 2850 | 82 | 3.7 | 9.0 | 13830B | 32030 | E26 |
| 1252220 | 22 Watt Circline Adapter and Lamp | 22 | 20 | 75 | 1100 | 2850 | 82 | 3.7 | 6.0 | 13820B | 32020 | E26 |
| 12522L | 22 Watt Circline Adapter and Lamp | 22 | 22 | 90 | 1400 | 2850 | 82 | 3.7 | 8.0 | 13822B | 32022 | E26 |
| 12530L | 30 Watt Circline Adapter and Lamp | 30 | 30 | 120 | 2000 | 2850 | 82 | 3.7 | 9.0 | 13830B | 32030 | E26 |
| 1253022 | 30 Watt Circline Adapter with 22 Watt Lamp | 30 | 22 | 90 | 1400 | 2850 | 82 | 3.7 | 8.0 | 13822B | 32022 | E26 |
| 1253630 | 36 Watt Circline Adapter with 30 Watt Lamp | 36 | 30 | 125 | 2100 | 2850 | 82 | 3.7 | 9.0 | 13830B | 32030 | E26 |



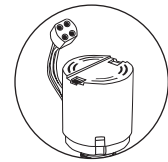
T9 CIRCLINE LAMPS, 10,000 HOUR, 2850K

| | | | | | | | | | | | | |
|-------|-----------------------|----|----|-----|------|------|----|-----|-----|--------|-----|-----|
| 32020 | 20 Watt Circline Lamp | NA | 20 | 75 | 1200 | 2850 | NA | 1.0 | 6.0 | 13820B | N/A | N/A |
| 32022 | 22 Watt Circline Lamp | NA | 22 | 90 | 1400 | 2850 | NA | 1.0 | 8.0 | 13822B | N/A | N/A |
| 32030 | 30 Watt Circline Lamp | NA | 30 | 120 | 2000 | 2850 | NA | 1.0 | 9.0 | 13830B | N/A | N/A |



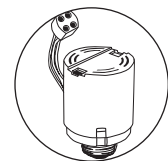
CIRCLINE BALLASTS, HPF

| | | | | | | | | | | | | |
|-------|--------------------------|----|----|----|----|----|----|----|----|----|-----|-----|
| 17022 | 22 Watt Circline Ballast | 22 | NA | NA | NA | NA | NA | NA | NA | NA | N/A | E26 |
| 17030 | 30 Watt Circline Ballast | 30 | NA | NA | NA | NA | NA | NA | NA | NA | N/A | E26 |
| 17033 | 33 Watt Circline Ballast | 33 | NA | NA | NA | NA | NA | NA | NA | NA | N/A | E26 |
| 17036 | 36 Watt Circline Ballast | 36 | NA | NA | NA | NA | NA | NA | NA | NA | N/A | E26 |
| 17040 | 40 Watt Circline Ballast | 40 | NA | NA | NA | NA | NA | NA | NA | NA | N/A | E26 |
| 17058 | 58 Watt Circline Ballast | 58 | NA | NA | NA | NA | NA | NA | NA | NA | N/A | E26 |



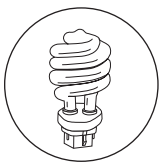
CIRCLINE BALLASTS, NPF

| | | | | | | | | | | | | |
|-------|--------------------------------|----|----|----|----|----|----|----|----|----|-----|-----|
| 12522 | 22 Watt Circline Ballast | 22 | NA | NA | NA | NA | NA | NA | NA | NA | N/A | E26 |
| 12530 | 30 Watt Circline Ballast | 30 | NA | NA | NA | NA | NA | NA | NA | NA | N/A | E26 |
| 12536 | 36 Watt Circline Ballast | 36 | NA | NA | NA | NA | NA | NA | NA | NA | N/A | E26 |
| 16533 | 33 Watt 3-Way Circline Ballast | 33 | NA | NA | NA | NA | NA | NA | NA | NA | N/A | E26 |



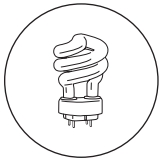
Two Piece SpringLamps

TWO PIECE REPLACEMENT LAMPS, TCX BASE, PL 4-PIN, AMALGAM, 10,000 HOUR



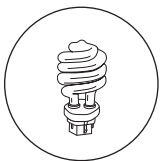
| Item Number | ENERGY STAR® Item Description | Lamp Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type |
|-------------|-------------------------------------|------------|------------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|
| 35009M | 9 Watt Mini-SpringLamp Replacement | 9 | 40 | 550 | 2700 | 82 | 3.0 | 1.8 | TCX 4-pin |
| 35011M | 11 Watt Mini-SpringLamp Replacement | 11 | 52 | 650 | 2700 | 82 | 3.0 | 1.8 | TCX 4-pin |
| 35014M | 14 Watt Mini-SpringLamp Replacement | 14 | 60 | 900 | 2700 | 82 | 3.1 | 1.8 | TCX 4-pin |
| 35009 | 9 Watt SpringLamp Repl | 9 | 35 | 400 | 2700 | 82 | 2.6 | 2.2 | TCX 4-pin |
| 35011 | 11 Watt SpringLamp Repl | 11 | 40 | 550 | 2700 | 82 | 2.8 | 2.2 | TCX 4-pin |
| 35015 | 15 Watt SpringLamp Repl | 15 | 60 | 930 | 2700 | 82 | 3.1 | 2.2 | TCX 4-pin |
| 35018 | 18 Watt SpringLamp Repl | 18 | 75 | 1150 | 2700 | 82 | 3.4 | 2.2 | TCX 4-pin |
| 35020 | 20 Watt SpringLamp Repl | 20 | 75 | 1200 | 2700 | 82 | 3.4 | 2.2 | TCX 4-pin |
| 35023 | 23 Watt SpringLamp Repl | 23 | 90 | 1400 | 2700 | 82 | 3.7 | 2.2 | TCX 4-pin |
| 35026 | 26 Watt SpringLamp Repl | 26 | 100 | 1750 | 2700 | 82 | 4.3 | 2.2 | TCX 4-pin |
| 35032 | 32 Watt SpringLamp Repl | 32 | 125 | 2100 | 2700 | 82 | 4.8 | 2.2 | TCX 4-pin |
| 35042 | 42 Watt SpringLamp Repl | 42 | 150 | 2800 | 2700 | 82 | 5.6 | 2.5 | TCX 4-pin |

SPRINGLAMP DIMMABLE REPLACEMENT LAMPS, TCX BASE, PL 4-PIN AMALGAM, 10,000 HOUR



| | | | | | | | | | |
|-------|--------------------|----|----|------|------|----|-----|-----|-----------|
| 36009 | 9 Watt SpringLamp | 9 | 35 | 400 | 2700 | 82 | 2.6 | 2.2 | TCX 4-pin |
| 36011 | 11 Watt SpringLamp | 11 | 40 | 550 | 2700 | 82 | 2.8 | 2.2 | TCX 4-pin |
| 36015 | 15 Watt SpringLamp | 15 | 60 | 930 | 2700 | 82 | 3.1 | 2.2 | TCX 4-pin |
| 36018 | 18 Watt SpringLamp | 18 | 75 | 1150 | 2700 | 82 | 3.4 | 2.2 | TCX 4-pin |
| 36020 | 20 Watt SpringLamp | 20 | 75 | 1200 | 2700 | 82 | 3.4 | 2.2 | TCX 4-pin |

TWO PIECE REPLACEMENT LAMPS, ANSI BASE, PL 4-PIN, AMALGAM, 10,000 HOUR



| | | | | | | | | | |
|--------|-------------------------|----|-----|------|------|----|-----|-----|--------|
| 33009M | 9 Watt Mini-SpringLamp | 9 | 40 | 550 | 2700 | 82 | 3.0 | 1.8 | G24Q-1 |
| 33011M | 11 Watt Mini-SpringLamp | 11 | 52 | 650 | 2700 | 82 | 3.0 | 1.8 | G24Q-1 |
| 33014M | 14 Watt Mini-SpringLamp | 14 | 60 | 900 | 2700 | 82 | 3.1 | 1.8 | G24Q-1 |
| 33011 | 11 Watt SpringLamp | 11 | 40 | 550 | 2700 | 82 | 3.4 | 2.2 | G24Q-1 |
| 33015 | 15 Watt SpringLamp | 15 | 60 | 930 | 2700 | 82 | 3.7 | 2.2 | G24Q-1 |
| 33018 | 18 Watt SpringLamp | 18 | 75 | 1150 | 2700 | 82 | 4.0 | 2.2 | G24Q-2 |
| 33020 | 20 Watt SpringLamp | 20 | 75 | 1200 | 2700 | 82 | 4.0 | 2.2 | G24Q-2 |
| 33023 | 23 Watt SpringLamp | 23 | 90 | 1400 | 2700 | 82 | 4.2 | 2.2 | G24Q-3 |
| 33026 | 26 Watt SpringLamp | 26 | 100 | 1750 | 2700 | 82 | 4.8 | 2.2 | G24Q-3 |
| 33032 | 32 Watt SpringLamp | 32 | 125 | 2100 | 2700 | 82 | 5.3 | 2.2 | G24Q-3 |
| 33042 | 42 Watt SpringLamp | 42 | 150 | 2800 | 2700 | 82 | 5.6 | 2.5 | G24Q-3 |

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Compact Fluorescent Lamps

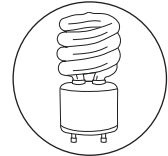
2010 LAMPS & BALLASTS
Fall/Winter Catalog

| Item Number | ENERGY STAR® | Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Input Line | Base Type |
|-------------|--------------|------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|------------|-----------|
|-------------|--------------|------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|------------|-----------|

GU 24 Base

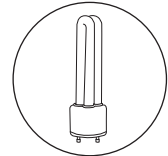
GU24 SPRINGLAMPS, 10,000 HOUR

| | | | | | | | | | | | |
|----------|---|---------------------|----|-----|------|------|----|-----|-----|------|------|
| 33109SP | ★ | 9 Watt SpringLamp | 9 | 45 | 550 | 2700 | 82 | 3.4 | 1.8 | .15A | GU24 |
| 33113SP | ★ | 13 Watt SpringLamp | 13 | 60 | 900 | 2700 | 82 | 3.6 | 1.8 | .22A | GU24 |
| 33118SP | ★ | 18 Watt SpringLamp | 18 | 75 | 1200 | 2700 | 82 | 3.8 | 2.3 | .30A | GU24 |
| 33123SP | ★ | 23 Watt SpringLamp | 23 | 90 | 1600 | 2700 | 82 | 4.4 | 2.4 | .43A | GU24 |
| 33127SP | ★ | 27 Watt SpringLamp | 27 | 100 | 1850 | 2700 | 82 | 4.8 | 2.4 | .45A | GU24 |
| 33132SP | ★ | 32 Watt SpringLamp | 32 | 120 | 2200 | 2700 | 82 | 5.1 | 2.7 | .53A | GU24 |
| 33142SP | | 42 Watt SpringLamp | 42 | 150 | 2800 | 2700 | 82 | 5.9 | 2.8 | .70A | GU24 |
| 33213SSP | ★ | 13 Watt Low Profile | 13 | 60 | 900 | 2700 | 82 | 2.3 | 3.2 | .22A | GU24 |



GU24 PL LAMPS, 8,000 HOUR

| | | | | | | | | | | | |
|--------|--|-------------------|----|-----|------|------|----|-----|-----|------|------|
| 33109Q | | 9 Watt Quad Tube | 9 | 45 | 500 | 2700 | 82 | 4.5 | 1.5 | .15A | GU24 |
| 33113Q | | 13 Watt Quad Tube | 13 | 60 | 800 | 2700 | 82 | 4.5 | 1.5 | .22A | GU24 |
| 33118Q | | 18 Watt Quad Tube | 18 | 75 | 1150 | 2700 | 82 | 6.1 | 1.5 | .30A | GU24 |
| 33126Q | | 26 Watt Quad Tube | 26 | 100 | 1600 | 2700 | 82 | 7.1 | 1.8 | .43A | GU24 |



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Compact Fluorescent Lamps

2010 LAMPS & BALLASTS
Fall/Winter Catalog

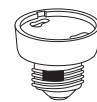
GU 24 Base Covered Lamps
GU24 Base Sockets

GU24 COVERED LAMPS, 8,000 HOUR

| | Item Number | ENERGY STAR® Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Input Line | Base Type |
|-----------|-------------|-------------------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|------------|-----------|
| A-Lamp | 33109A19 | 9 Watt A Lamp | 9 | 40 | 450 | 2700 | 82 | 3.6 | 2.3 | .15A | GU24 |
| | 33114A19 | ★ 14 Watt A Lamp | 14 | 60 | 800 | 2700 | 82 | 4.3 | 2.4 | .23A | GU24 |
| | 33119A19 | 19 Watt A Lamp | 19 | 60 | 900 | 2700 | 82 | 5.3 | 2.8 | .32A | GU24 |
| Globe | 33109G25 | 9 Watt G25 Globe | 9 | 40 | 450 | 2700 | 82 | 4.0 | 3.2 | .15A | GU24 |
| | 33114G25 | ★ 14 Watt G25 Globe | 14 | 60 | 800 | 2700 | 82 | 4.6 | 3.2 | .23A | GU24 |
| | 33114G30 | 14 Watt G30 Globe | 14 | 60 | 800 | 2700 | 82 | 5.3 | 3.7 | .23A | GU24 |
| | 33119G30 | 19 Watt G30 Globe | 19 | 75 | 950 | 2700 | 82 | 5.5 | 3.7 | .32A | GU24 |
| R20 Flood | 33114G40 | 14 Watt G40 Globe | 14 | 60 | 800 | 2700 | 82 | 6.5 | 5.0 | .23A | GU24 |
| | 33119G40 | 19 Watt G40 Globe | 19 | 75 | 950 | 2700 | 82 | 6.5 | 5.0 | .32A | GU24 |
| | 33109R20 | 9 Watt R20 Flood | 9 | 25 | 300 | 2700 | 82 | 3.3 | 2.5 | .15A | GU24 |
| | 33114R20 | 14 Watt R20 Flood | 14 | 50 | 500 | 2700 | 82 | 4.6 | 2.5 | .23A | GU24 |
| R30 Flood | 33114R30 | 14 Watt R30 Flood | 14 | 65 | 650 | 2700 | 82 | 4.6 | 3.7 | .23A | GU24 |
| | 33116R30 | ★ 16 Watt R30 Flood | 16 | 75 | 750 | 2700 | 82 | 4.6 | 3.7 | .27A | GU24 |
| | 33116R40 | 16 Watt R40 Flood | 16 | 75 | 750 | 2700 | 82 | 5.3 | 4.8 | .27A | GU24 |
| | 33123R40 | 23 Watt R40 Flood | 23 | 120 | 1200 | 2700 | 82 | 5.3 | 4.8 | .38A | GU24 |
| | 33116P30 | 16 Watt Par30 Flood | 16 | 75 | 750 | 2700 | 82 | 4.8 | 3.7 | .27A | GU24 |
| R40 Flood | 33123P38 | 23 Watt Par 38 Flood | 23 | 90 | 1200 | 2700 | 82 | 5.3 | 4.8 | .38A | GU24 |
| | 33114PF20 | 14 Watt Par Flat 20 Flood | 14 | 65 | 350 | 2700 | 82 | 4.0 | 2.5 | .23A | GU24 |
| | 33116PF30 | 14 Watt Par Flat 30 Flood | 14 | 65 | 750 | 2700 | 82 | 4.2 | 3.7 | .27A | GU24 |
| | 33123PF38 | 23 Watt Par Flat 38 Flood | 23 | 90 | 1000 | 2700 | 82 | 4.8 | 4.8 | .38A | GU24 |

GU24 SOCKETS

| | |
|-----------|--|
| 331SKTLKT | Socket Lock It |
| 331002SKT | 2 Way Socket - 12", 24", 72" Lengths |
| 331SPRCLP | Spring Clip Ceiling Applications |
| 331SDSKT | For Vanity Lights and Ceiling Fixtures |
| 331003SKT | Recessed Can Socket |
| 331004SKT | Clips into Recessed Can |
| 331005SKT | Clips into Recessed Can |
| 331EXTNT | Socket Extender |
| 331SDADJ | Adjustable for Vanity Applications |
| 331THSKT | Pendant Mount Socket |
| 331SWTCH | Socket with Switch |



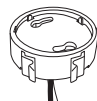
331SKTLKT



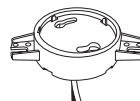
331002SKT



331SPRCLP



331SDSKT



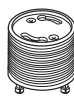
331003SKT



331004SKT



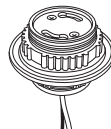
331005SKT



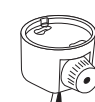
331EXTN



331SDADJ



331THSKT



331SWTC

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Fall/Winter Catalog

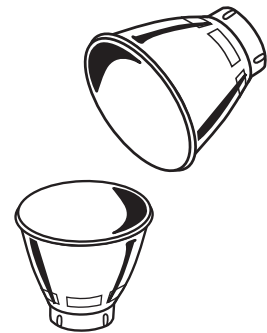
| TCP PART NUMBER | DESCRIPTION | MOL (INCHES) | DIAMETER (INCHES) | MOL WITH LAMP (INCHES) | SPRINGLAMPS MAX. LAMP SIZE |
|-----------------|-------------|--------------|-------------------|------------------------|----------------------------|
|-----------------|-------------|--------------|-------------------|------------------------|----------------------------|

TCP Pro Reflectors – 489, 401 Series

| | | | | | |
|----------|--------------------------|-----|-----|-----|---------|
| 489R3013 | Fits 48909, 48913 | 3.0 | 3.7 | 4.4 | 13 Watt |
| 489R4013 | Fits 48909, 48913 | 3.0 | 4.7 | 4.4 | 13 Watt |
| 489R3023 | Fits 48918, 48923, 40114 | 3.4 | 3.7 | 4.9 | 23 Watt |
| 489R4023 | Fits 48918, 48923, 40114 | 3.4 | 4.7 | 4.9 | 23 Watt |
| 401R4023 | Fits 40123 | 3.7 | 4.7 | 5.4 | 23 Watt |

ALUMINUM REFLECTORS FOR 1 PIECE LAMPS (Friction Fit)

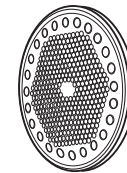
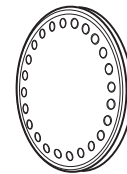
| | | | | | |
|----------|------------------------|-----|-----|-----|---------|
| 201M20 | M20 Mini Reflector | 2.7 | 2.5 | 4.0 | 13 Watt |
| 201M30 | M30 Mini Reflector | 2.9 | 3.7 | 4.2 | 13 Watt |
| 201M3018 | M30 Mini Reflector/18w | 3.3 | 3.7 | 4.9 | 18 Watt |
| 201M3023 | M30 Mini Reflector/23w | 3.7 | 3.7 | 5.0 | 23 Watt |
| 201M40 | M40 Mini Reflector | 3.0 | 4.7 | 4.4 | 13 Watt |
| 201M4018 | M40 Mini Reflector/18w | 3.3 | 4.6 | 4.8 | 18 Watt |
| 201M4023 | M40 Mini Reflector/23w | 3.6 | 5.0 | 5.0 | 23 Watt |
| 101R30 | R30 Reflector | 3.7 | 3.7 | 5.4 | 27 Watt |
| 101R40 | R40 Reflector | 4.5 | 4.7 | 6.2 | 32 Watt |
| 101R50 | R50 Reflector | 5.6 | 5.6 | 7.5 | 32 Watt |



SNAP-ON REFLECTOR COVERS

| | |
|----------|---|
| 10R30CV* | R30 Reflector cover, vented 3.8" diameter |
| 10R40CV* | R40 Reflector cover, vented 4.7" diameter |
| 10R50CV* | R50 Reflector cover, vented 5.8" diameter |

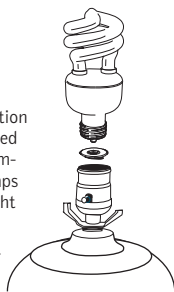
* Use PV instead of CV for Prismatic Vented reflector covers



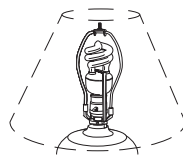
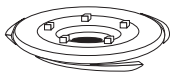
Prismatic Vented cover

Permanent Installation Disk

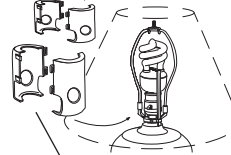
A Permanent Installation Disk (10PERM) is used to allow only TCP Compact Fluorescent Lamps to fit in a standard light socket to qualify for energy saving rebates.



10PERM



10LOCK

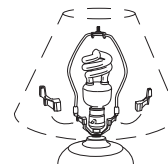


12LOCK for long sockets (2.34" MOL)

13LOCK for short sockets (1.96" MOL)

Vandal Resistant Devices

The Vandal Resistant Devices (10LOCK, 12LOCK and 13LOCK) are used to help prevent bulb theft. Use 10LOCK with all lamps except covered lamps. Use 12LOCK or 13LOCK with all lamps except candelabra base lamps.



Lamp Harp Extenders

Simply slip on harp ends to extend and fit around larger size bulbs.

| Item # | Description |
|--------|-----------------------------|
| 10PERM | Permanent Installation Disk |

| Item # | MOL | Description |
|--------|-------|-------------------------|
| 10LOCK | N/A | Vandal Resistant Device |
| 12LOCK | 2.34" | Vandal Resistant Device |
| 13LOCK | 1.96" | Short, snap-on VRD |

| Item # | Description |
|--------|---------------------------|
| 15HEXT | Harp Extenders (set of 2) |

| TCP PART NUMBER | DESCRIPTION | USE WITH THESE LAMPS |
|-----------------|--|--|
| 201M20 |  Mini Aluminum R20 |  Mini SpringLamps 28909, 28913, 28009, 28013 |
| 201M30 |  Mini Aluminum R30 |  Mini SpringLamps 28909, 28913, 28009, 28013 |
| 201M3018 |  Mini Aluminum R30 |  Mini SpringLamps 18214, 28918, 28018, 18209 |
| 201M3023 |  Mini Aluminum R30 |  Mini SpringLamps 28923, 28023, 18220, 18223 |
| 201M40 |  Mini Aluminum R40 |  Mini SpringLamps 28909, 28913, 28009, 28013 |
| 201M4018 |  Mini Aluminum R40 |  Mini SpringLamps 18214, 28918, 28018, 18209 |
| 201M4023 |  Mini Aluminum R40 |  Mini SpringLamps 28923, 28023, 18220, 18223 |
| 101R30 |  Aluminum R30 |  SpringLamp 10109, 10111 |
| 101R40 |  Aluminum R40 |  SpringLamp 10109, 10111, 28932 |
| 101R50 |  Aluminum R50 |  SpringLamp 10109, 10111, 28932 |
| 201M3027M |  Aluminum R30 |  SpringLamp 28927M, 28027M, 10115, 10120, 10123, 18227 |
| 201M4027M |  Aluminum R40 | |
| RR101M |  Adapter fits into 101M20, 101M30, 101M40 |  Mini SpringLamps 28909, 28913, 28009, 28013 |
| RR101M19 |  Adapter fits into 101M3019, 101M4019 |  Mini SpringLamps 28918, 28018 |
| RR27M |  Adapter fits into 101R20, 101R30, 101R40 |  Mini SpringLamps 28927M, 28027M, 10115, 10120, 10123 |

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Compact Fluorescent Lamps

2010 LAMPS & BALLASTS
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CFL Warranties

**8,000 Hour 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 (325 Campus Dr, Aurora, OH 44202) 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.

**10,000 Hour Lamps 15 months
LIMITED WARRANTY**

This TCP product is warranted for a period of 15 months 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 (325 Campus Dr, Aurora, OH 44202) along with the original sales receipt within 15 months 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.

**489 Series | 4T2 Series
12,000 Hour Lamps 24 Months
LIMITED WARRANTY**

This TCP product is warranted for a period of 24 months 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 (325 Campus Dr, Aurora, OH 44202) along with the original sales receipt within 24 months 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.

**50,000 Hour Ballasts 5 Years
LIMITED WARRANTY**

This TCP product is warranted for a period of 5 years 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 (325 Campus Dr, Aurora, OH 44202) along with the original sales receipt within 5 years 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.

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Compact Fluorescent Lamps

2010 LAMPS & BALLASTS
Fall/Winter Catalog



Some of our products contain mercury.
Manage according to Local, State, or Federal Disposal Laws
See: www.lamprecycle.org or call 1-800-771-9335

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

With the high quality standards all our products must meet, you are guaranteed to have a lighting source that performs in the harshest environments. We've even established a UL client testing laboratory at our corporate headquarters to ensure the safety of every product you use. Our lab is ISO 17025 compliant.

Spring Light™



800.324.1496 | SpringLightCFL.com

TCP SpringLight™

2010 LAMPS & BALLASTS
Fall/Winter Catalog

| Item Number | ENERGY STAR® | Item Description | Unit/Ballast Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Base Type | Case Quantity |
|-------------|--------------|------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|
|-------------|--------------|------------------|--------------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-----------|---------------|

SpringLight™

SPRINGLIGHT™ SPRINGLAMPS®

| | | | | | | | | | | | |
|-----------|---|------------------------|----|-----|------|------|----|-----|-----|-----|----|
| 801009 | ★ | 9W SpringLamp 27K | 9 | 40 | 540 | 2700 | 82 | 4.0 | 1.8 | E26 | 6 |
| 80100935 | ★ | 9W SpringLamp 35K | 9 | 40 | 450 | 3500 | 82 | 4.0 | 1.8 | E26 | 6 |
| 80100941 | ★ | 9W SpringLamp 41K | 9 | 40 | 450 | 4100 | 82 | 4.0 | 1.8 | E26 | 12 |
| 80100950 | ★ | 9W SpringLamp 50K | 9 | 40 | 450 | 5000 | 82 | 4.0 | 1.8 | E26 | 12 |
| 801014 | ★ | 14W SpringLamp 27K | 14 | 60 | 900 | 2700 | 82 | 4.4 | 1.8 | E26 | 12 |
| 8010143 | ★ | 14W SpringLamp 27K 3PK | 14 | 60 | 900 | 2700 | 82 | 4.4 | 1.8 | E26 | 12 |
| 80101435 | ★ | 14W SpringLamp 35K | 14 | 60 | 800 | 3500 | 82 | 4.4 | 1.8 | E26 | 12 |
| 80101441 | ★ | 14W SpringLamp 41K | 14 | 60 | 800 | 4100 | 82 | 4.4 | 1.8 | E26 | 12 |
| 801014413 | ★ | 14W SpringLamp 41K 3PK | 14 | 60 | 800 | 4100 | 82 | 4.4 | 1.8 | E26 | 12 |
| 80101450 | ★ | 14W SpringLamp 50K | 14 | 60 | 800 | 5000 | 82 | 4.4 | 1.8 | E26 | 12 |
| 801019 | ★ | 19W SpringLamp 27K | 19 | 75 | 1200 | 2700 | 82 | 4.4 | 2.3 | E26 | 12 |
| 8010193 | ★ | 19W SpringLamp 27K 3PK | 19 | 75 | 1200 | 2700 | 82 | 4.4 | 2.3 | E26 | 12 |
| 80101935 | ★ | 19W SpringLamp 35K | 19 | 75 | 1100 | 3500 | 82 | 4.4 | 2.3 | E26 | 12 |
| 80101941 | ★ | 19W SpringLamp 41K | 19 | 75 | 1100 | 4100 | 82 | 4.4 | 2.3 | E26 | 6 |
| 801019413 | ★ | 19W SpringLamp 41K 3PK | 19 | 75 | 1100 | 4100 | 82 | 4.4 | 2.3 | E26 | 6 |
| 80101950 | ★ | 19W SpringLamp 50K | 19 | 75 | 1100 | 5000 | 82 | 4.4 | 2.3 | E26 | 12 |
| 801023 | ★ | 23W SpringLamp 27K | 23 | 100 | 1600 | 2700 | 82 | 4.8 | 2.3 | E26 | 12 |
| 8010233 | ★ | 23W SpringLamp 27K 3PK | 23 | 100 | 1600 | 2700 | 82 | 4.8 | 2.3 | E26 | 12 |
| 80102335 | ★ | 23W SpringLamp 35K | 23 | 100 | 1500 | 3500 | 82 | 4.8 | 2.3 | E26 | 12 |
| 80102341 | ★ | 23W SpringLamp 41K | 23 | 100 | 1500 | 4100 | 82 | 4.8 | 2.3 | E26 | 12 |
| 801023413 | ★ | 23W SpringLamp 41K 3PK | 23 | 100 | 1500 | 4100 | 82 | 4.8 | 2.3 | E26 | 12 |
| 80102350 | ★ | 23W SpringLamp 50K | 23 | 100 | 1500 | 5000 | 82 | 4.8 | 2.3 | E26 | 12 |
| 801027 | ★ | 27W SpringLamp 27K | 27 | 100 | 1850 | 2700 | 82 | 5.5 | 2.4 | E26 | 12 |
| 8010273 | ★ | 27W SpringLamp 27K 3PK | 27 | 100 | 1850 | 2700 | 82 | 5.5 | 2.4 | E26 | 12 |
| 80102735 | ★ | 27W SpringLamp 35K | 27 | 100 | 1750 | 3500 | 82 | 5.5 | 2.4 | E26 | 12 |
| 80102741 | ★ | 27W SpringLamp 41K | 27 | 100 | 1750 | 4100 | 82 | 5.5 | 2.4 | E26 | 12 |
| 801027413 | ★ | 27W SpringLamp 41K 3PK | 27 | 100 | 1750 | 4100 | 82 | 5.5 | 2.4 | E26 | 12 |
| 80102750 | ★ | 27W SpringLamp 50K | 27 | 100 | 1750 | 5000 | 82 | 5.5 | 2.4 | E26 | 12 |

SPRINGLIGHT™ REFLECTOR LAMPS

| | | | | | | | | | | | |
|---------|---|--------------------------------|----|-----|------|------|----|-----|-----|-----|----|
| 802014 | ★ | 14w R20 Flood SpringLamp | 14 | 50 | 495 | 2700 | 82 | 4.3 | 2.5 | E26 | 12 |
| 803014 | ★ | 14w R30 Flood SpringLamp | 14 | 65 | 645 | 2700 | 82 | 5.4 | 3.7 | E26 | 12 |
| 8030142 | ★ | 14w R30 Flood SpringLamp 2PK | 14 | 65 | 645 | 2700 | 82 | 5.4 | 3.7 | E26 | 12 |
| 805023 | ★ | 23w Par38 Flood SpringLamp | 23 | 90 | 1200 | 2700 | 82 | 6.2 | 4.8 | E26 | 12 |
| 8050232 | ★ | 23w Par38 Flood SpringLamp 2PK | 23 | 90 | 1200 | 2700 | 82 | 6.2 | 4.8 | E26 | 12 |
| 804023 | ★ | 23w R40 Flood SpringLamp | 23 | 120 | 1200 | 2700 | 82 | 6.1 | 4.8 | E26 | 12 |

SPRINGLIGHT™ GLOBES

| | | | | | | | | | | | |
|---------|---|------------------------------|----|----|-----|------|----|-----|-----|-----|----|
| 8060092 | ★ | 9w G25 Globe SpringLamp 2PK | 9 | 40 | 495 | 2700 | 82 | 4.3 | 3.1 | E26 | 12 |
| 8060142 | ★ | 14w G25 Globe SpringLamp 2PK | 14 | 60 | 800 | 2700 | 82 | 4.3 | 3.1 | E26 | 12 |

SPRINGLIGHT™ A-LAMPS

| | | | | | | | | | | | |
|---------|---|---------------------------|----|----|-----|------|----|-----|-----|-----|----|
| 8070092 | ★ | 9w A-Lamp SpringLamp 2pk | 9 | 40 | 450 | 2700 | 82 | 4.1 | 2.2 | E26 | 12 |
| 8070142 | ★ | 14w A-Lamp SpringLamp 2pk | 14 | 60 | 800 | 2700 | 82 | 4.3 | 3.1 | E26 | 12 |



800.324.1496 | SpringLightCFL.com

TCP SpringLight™

2010 LAMPS & BALLASTS Fall/Winter Catalog

SpringLight™ WARRANTY

SpringLamp® 12 months LIMITED WARRANTY

This TCP product is warranted for a period of 12 months 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 (325 Campus Dr., Aurora, OH 44202) along with the original sales receipt within 12 months 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.



800.324.1496 | tcp.com

Cold Cathodes

2010 LAMPS & BALLASTS
Fall/Winter Catalog

Cold Cathode - a contemporary and exciting lighting technology that TCP has perfected - is a fitting option where dimming and rapid flashing are desired. Long-lasting, versatile, and energy efficient, our cold cathode lamps are available in a variety of shapes and colors to meet your unique lighting needs.

Applications:

- Theaters
- Amusement Parks
- Marquees
- Flashing Signs
- Chandeliers
- Decorative Applications
- Sanctuaries
- Recessed Cans
- Downlighting
- Track Lights

Cold Cathodes

FEATURES / BENEFITS

- Long life: 25,000 hours
- Cold Cathode lamps are excellent for rapid cycling, flashing and dimming applications
- Special phosphor coating procedure provides excellent color consistency
- Available in medium or candelabra base



A-Lamps



Flame Tips



Decorative



G20 Globes



G25 Globes



G30 Globes



Flat Pars



R20 Floods



R30 Floods

A-Lamps Torpedos

3 WATT S14 COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)



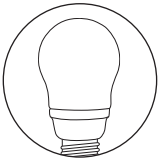
| Item Number | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Lamp Finish |
|-------------|-----------------------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-------------|
| 8A03CL | 3 Watt Cold Cathode A-Lamp Clear | 3 | 15-20 | 120 | 2700 | 82 | 3.6 | 1.7 | Clear |
| 8A03F | 3 Watt Cold Cathode A-Lamp Frost | 3 | 15-20 | 120 | 2700 | 82 | 3.6 | 1.7 | Frost |
| 8A03LV | 3 Watt Cold Cathode A-Lamp LV | 3 | 15-20 | 115 | 2400 | 82 | 3.6 | 1.7 | LV |
| 8A03WH | 3 Watt Cold Cathode A-Lamp White | 3 | 15-20 | 120 | 2700 | 82 | 3.6 | 1.7 | White |
| 8A03Y | 3 Watt Cold Cathode A-Lamp Yellow | 3 | 15-20 | N/A | N/A | N/A | 3.6 | 1.7 | Yellow |
| 8A03BL | 3 Watt Cold Cathode A-Lamp Blue | 3 | 15-20 | N/A | N/A | N/A | 3.6 | 1.7 | Blue |
| 8A03GR | 3 Watt Cold Cathode A-Lamp Green | 3 | 15-20 | N/A | N/A | N/A | 3.6 | 1.7 | Green |
| 8A03RD | 3 Watt Cold Cathode A-Lamp Red | 3 | 15-20 | N/A | N/A | N/A | 3.6 | 1.7 | Red |

5 WATT A17 COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)



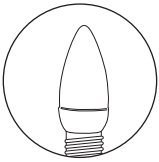
| Item Number | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Lamp Finish |
|-------------|-----------------------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-------------|
| 8A05CL | 5 Watt Cold Cathode A-Lamp Clear | 5 | 25-30 | 200 | 2700 | 82 | 4.0 | 2.0 | Clear |
| 8A05F | 5 Watt Cold Cathode A-Lamp Frost | 5 | 25-30 | 200 | 2700 | 82 | 4.0 | 2.0 | Frost |
| 8A05LV | 5 Watt Cold Cathode A-Lamp LV | 5 | 25-30 | 190 | 2400 | 82 | 4.0 | 2.0 | LV |
| 8A05WH | 5 Watt Cold Cathode A-Lamp White | 5 | 25-30 | 200 | 2700 | 82 | 4.0 | 2.0 | White |
| 8A05Y | 5 Watt Cold Cathode A-Lamp Yellow | 5 | 25-30 | N/A | N/A | N/A | 4.0 | 2.0 | Yellow |
| 8A05BL | 5 Watt Cold Cathode A-Lamp Blue | 5 | 25-30 | N/A | N/A | N/A | 4.0 | 2.0 | Blue |
| 8A05GR | 5 Watt Cold Cathode A-Lamp Green | 5 | 25-30 | N/A | N/A | N/A | 4.0 | 2.0 | Green |
| 8A05RD | 5 Watt Cold Cathode A-Lamp Red | 5 | 25-30 | N/A | N/A | N/A | 4.0 | 2.0 | Red |

8 WATT A19 COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)



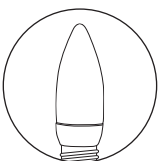
| Item Number | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Lamp Finish |
|-------------|-----------------------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-------------|
| 8A08CL | 8 Watt Cold Cathode A-Lamp Clear | 8 | 35-40 | 300 | 2700 | 82 | 4.5 | 2.4 | Clear |
| 8A08F | 8 Watt Cold Cathode A-Lamp Frost | 8 | 35-40 | 300 | 2700 | 82 | 4.5 | 2.4 | Frost |
| 8A08LV | 8 Watt Cold Cathode A-Lamp LV | 8 | 35-40 | 280 | 2400 | 82 | 4.5 | 2.4 | LV |
| 8A08WH | 8 Watt Cold Cathode A-Lamp White | 8 | 35-40 | 300 | 2700 | 82 | 4.5 | 2.4 | White |
| 8A08Y | 8 Watt Cold Cathode A-Lamp Yellow | 8 | 35-40 | N/A | N/A | N/A | 4.5 | 2.4 | Yellow |
| 8A08BL | 8 Watt Cold Cathode A-Lamp Blue | 8 | 35-40 | N/A | N/A | N/A | 4.5 | 2.4 | Blue |
| 8A08GR | 8 Watt Cold Cathode A-Lamp Green | 8 | 35-40 | N/A | N/A | N/A | 4.5 | 2.4 | Green |
| 8A08RD | 8 Watt Cold Cathode A-Lamp Red | 8 | 35-40 | N/A | N/A | N/A | 4.5 | 2.4 | Red |

3 WATT TORPEDO COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)



| Item Number | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Lamp Finish |
|-------------|-----------------------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-------------|
| 8T03CL | 3 Watt Cold Cathode Torpedo Clear | 3 | 15-20 | 120 | 2700 | 82 | 4.0 | 1.4 | Clear |
| 8T03F | 3 Watt Cold Cathode Torpedo Frost | 3 | 15-20 | 120 | 2700 | 82 | 4.0 | 1.4 | Frost |
| 8T03LV | 3 Watt Cold Cathode Torpedo LV | 3 | 15-20 | 115 | 2400 | 82 | 4.0 | 1.4 | LV |
| 8T03WH | 3 Watt Cold Cathode Torpedo White | 3 | 15-20 | 120 | 2700 | 82 | 4.0 | 1.4 | White |

5 WATT TORPEDO COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)



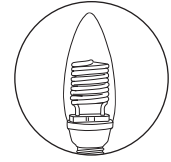
| Item Number | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Lamp Finish |
|-------------|-----------------------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-------------|
| 8T05CL | 5 Watt Cold Cathode Torpedo Clear | 5 | 25-30 | 200 | 2700 | 82 | 4.4 | 1.4 | Clear |
| 8T05F | 5 Watt Cold Cathode Torpedo Frost | 5 | 25-30 | 200 | 2700 | 82 | 4.4 | 1.4 | Frost |
| 8T05LV | 5 Watt Cold Cathode Torpedo LV | 5 | 25-30 | 190 | 2400 | 82 | 4.4 | 1.4 | LV |
| 8T05WH | 5 Watt Cold Cathode Torpedo White | 5 | 25-30 | 200 | 2700 | 82 | 4.4 | 1.4 | White |

| Item Number | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Lamp Finish |
|-------------|------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-------------|
|-------------|------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-------------|

**Torpedos
Flame Tips
Globes**

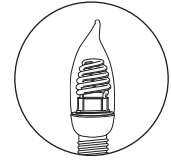
8 WATT TORPEDO COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)

| | | | | | | | | | |
|--------|-----------------------------------|---|-------|-----|------|----|-----|-----|-------|
| 8T08CL | 8 Watt Cold Cathode Torpedo Clear | 8 | 35-40 | 300 | 2700 | 82 | 5.8 | 2.0 | Clear |
| 8T08F | 8 Watt Cold Cathode Torpedo Frost | 8 | 35-40 | 300 | 2700 | 82 | 5.8 | 2.0 | Frost |
| 8T08LV | 8 Watt Cold Cathode Torpedo LV | 8 | 35-40 | 280 | 2400 | 82 | 5.8 | 2.0 | LV |
| 8T08WH | 8 Watt Cold Cathode Torpedo White | 8 | 35-40 | 300 | 2700 | 82 | 5.8 | 2.0 | White |



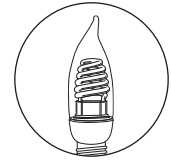
3 WATT FLAME TIP COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)

| | | | | | | | | | |
|---------|-------------------------------------|---|-------|-----|------|----|-----|-----|-------|
| 8TF03CL | 3 Watt Cold Cathode Flame Tip Clear | 3 | 15-20 | 120 | 2700 | 82 | 4.5 | 1.4 | Clear |
| 8TF03F | 3 Watt Cold Cathode Flame Tip Frost | 3 | 15-20 | 120 | 2700 | 82 | 4.5 | 1.4 | Frost |
| 8TF03LV | 3 Watt Cold Cathode Flame Tip LV | 3 | 15-20 | 115 | 2400 | 82 | 4.5 | 1.4 | LV |
| 8TF03WH | 3 Watt Cold Cathode Flame Tip White | 3 | 15-20 | 120 | 2700 | 82 | 4.5 | 1.4 | White |



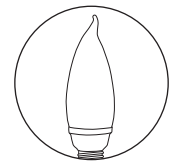
5 WATT FLAME TIP COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)

| | | | | | | | | | |
|---------|-------------------------------------|---|-------|-----|------|----|-----|-----|-------|
| 8TF05CL | 5 Watt Cold Cathode Flame Tip Clear | 5 | 25-30 | 200 | 2700 | 82 | 4.8 | 1.4 | Clear |
| 8TF05F | 5 Watt Cold Cathode Flame Tip Frost | 5 | 25-30 | 200 | 2700 | 82 | 4.8 | 1.4 | Frost |
| 8TF05LV | 5 Watt Cold Cathode Flame Tip LV | 5 | 25-30 | 190 | 2400 | 82 | 4.8 | 1.4 | LV |
| 8TF05WH | 5 Watt Cold Cathode Flame Tip White | 5 | 25-30 | 200 | 2700 | 82 | 4.8 | 1.4 | White |



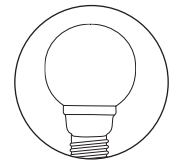
8 WATT FLAME TIP COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)

| | | | | | | | | | |
|---------|-------------------------------------|---|-------|-----|------|----|-----|-----|-------|
| 8TF08CL | 8 Watt Cold Cathode Flame Tip Clear | 8 | 35-40 | 300 | 2700 | 82 | 6.4 | 2.0 | Clear |
| 8TF08F | 8 Watt Cold Cathode Flame Tip Frost | 8 | 35-40 | 300 | 2700 | 82 | 6.4 | 2.0 | Frost |
| 8TF08LV | 8 Watt Cold Cathode Flame Tip LV | 8 | 35-40 | 280 | 2400 | 82 | 6.4 | 2.0 | LV |
| 8TF08WH | 8 Watt Cold Cathode Flame Tip White | 8 | 35-40 | 300 | 2700 | 82 | 6.4 | 2.0 | White |



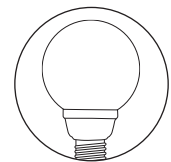
G20 GLOBE COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)

| | | | | | | | | | |
|----------|-------------------------------------|---|-------|-----|------|----|-----|-----|-------|
| 8G2003CL | 3 Watt Cold Cathode G20 Globe Clear | 3 | 15-20 | 120 | 2700 | 82 | 4.0 | 2.5 | Clear |
| 8G2003F | 3 Watt Cold Cathode G20 Globe Frost | 3 | 15-20 | 120 | 2700 | 82 | 4.0 | 2.5 | Frost |
| 8G2003WH | 3 Watt Cold Cathode G20 Globe White | 3 | 15-20 | 120 | 2700 | 82 | 4.0 | 2.5 | White |



G25 GLOBE COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)

| | | | | | | | | | |
|----------|-------------------------------------|---|-------|-----|------|----|-----|-----|-------|
| 8G2503CL | 3 Watt Cold Cathode G25 Globe Clear | 3 | 15-20 | 120 | 2700 | 82 | 4.3 | 3.1 | Clear |
| 8G2503F | 3 Watt Cold Cathode G25 Globe Frost | 3 | 15-20 | 120 | 2700 | 82 | 4.3 | 3.1 | Frost |
| 8G2503WH | 3 Watt Cold Cathode G25 Globe White | 3 | 15-20 | 120 | 2700 | 82 | 4.3 | 3.1 | White |
| 8G2505CL | 5 Watt Cold Cathode G25 Globe Clear | 5 | 25-30 | 200 | 2700 | 82 | 4.3 | 3.1 | Clear |
| 8G2505F | 5 Watt Cold Cathode G25 Globe Frost | 5 | 25-30 | 200 | 2700 | 82 | 4.3 | 3.1 | Frost |
| 8G2505WH | 5 Watt Cold Cathode G25 Globe White | 5 | 25-30 | 200 | 2700 | 82 | 4.3 | 3.1 | White |
| 8G2508CL | 8 Watt Cold Cathode G25 Globe Clear | 8 | 35-40 | 300 | 2700 | 82 | 4.3 | 3.1 | Clear |
| 8G2508F | 8 Watt Cold Cathode G25 Globe Frost | 8 | 35-40 | 300 | 2700 | 82 | 4.3 | 3.1 | Frost |
| 8G2508WH | 8 Watt Cold Cathode G25 Globe White | 8 | 35-40 | 300 | 2700 | 82 | 4.3 | 3.1 | White |



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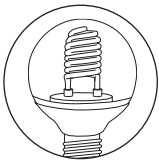
Cold Cathodes

2010 LAMPS & BALLASTS

Globes
R20s
R30s
Flat Pars

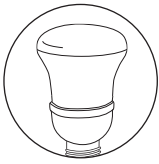
| Item Number | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Initial Lumens | CCT (Kelvin) | CRI | MOL/Height (Inches) | Diameter/Width (Inches) | Lamp Finish |
|-------------|------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-------------|
|-------------|------------------|------------|---------------------------------|----------------|--------------|-----|---------------------|-------------------------|-------------|

G30 GLOBE COLD CATHODE 120V, 25,000 HOUR (ALSO AVAILABLE IN CANDELABRA)



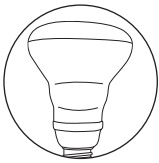
| | | | | | | | | | |
|----------|-------------------------------------|---|-------|-----|------|----|-----|-----|-------|
| 8G3008CL | 8 Watt Cold Cathode G30 Globe Clear | 8 | 35-40 | 300 | 2700 | 82 | 4.8 | 3.1 | Clear |
| 8G3008F | 8 Watt Cold Cathode G30 Globe Frost | 8 | 35-40 | 300 | 2700 | 82 | 4.8 | 3.1 | Frost |
| 8G3008WH | 8 Watt Cold Cathode G30 Globe White | 8 | 35-40 | 300 | 2700 | 82 | 4.8 | 3.1 | White |

R20 REFLECTOR COLD CATHODE 120V, 25,000 HOUR



| | | | | | | | | | |
|----------|--|---|-------|-----|------|-----|-----|-----|--------|
| 8R2003CL | 3 Watt Cold Cathode R20 Reflector Clear | 3 | 15-20 | 100 | 2700 | 82 | 3.4 | 2.5 | Clear |
| 8R2003F | 3 Watt Cold Cathode R20 Reflector Frost | 3 | 15-20 | 100 | 2700 | 82 | 3.4 | 2.5 | Frost |
| 8R2005CL | 5 Watt Cold Cathode R20 Reflector Clear | 5 | 25-30 | 140 | 2700 | 82 | 4.0 | 2.5 | Clear |
| 8R2005F | 5 Watt Cold Cathode R20 Reflector Frost | 5 | 25-30 | 140 | 2700 | 82 | 4.0 | 2.5 | Frost |
| 8R2005Y | 5 Watt Cold Cathode R20 Reflector Yellow | 5 | 25-30 | N/A | N/A | N/A | 4.0 | 2.5 | Yellow |
| 8R2005BL | 5 Watt Cold Cathode R20 Reflector Blue | 5 | 25-30 | N/A | N/A | N/A | 4.0 | 2.5 | Blue |
| 8R2005GR | 5 Watt Cold Cathode R20 Reflector Green | 5 | 25-30 | N/A | N/A | N/A | 4.0 | 2.5 | Green |
| 8R2005RD | 5 Watt Cold Cathode R20 Reflector Red | 5 | 25-30 | N/A | N/A | N/A | 4.0 | 2.5 | Red |
| 8R2005P | 5 Watt Cold Cathode R20 Reflector Pink | 5 | 25-30 | N/A | N/A | N/A | 4.0 | 2.5 | Pink |

R30 REFLECTOR COLD CATHODE 120V, 25,000 HOUR



| | | | | | | | | | |
|----------|-------------------|---|-------|-----|------|-----|-----|-----|--------|
| 8R3008CL | 8 Watt R30 Clear | 8 | 35-40 | 300 | 2700 | 82 | 4.7 | 3.7 | Clear |
| 8R3008F | 8 Watt R30 Frost | 8 | 35-40 | 300 | 2700 | 82 | 4.7 | 3.7 | Frost |
| 8R3008Y | 8 Watt R30 Yellow | 8 | 35-40 | N/A | N/A | N/A | 4.7 | 3.7 | Yellow |
| 8R3008BL | 8 Watt R30 Blue | 8 | 35-40 | N/A | N/A | N/A | 4.7 | 3.7 | Blue |
| 8R3008GR | 8 Watt R30 Green | 8 | 35-40 | N/A | N/A | N/A | 4.7 | 3.7 | Green |
| 8R3008RD | 8 Watt R30 Red | 8 | 35-40 | N/A | N/A | N/A | 4.7 | 3.7 | Red |
| 8R3008P | 8 Watt R30 Pink | 8 | 35-40 | N/A | N/A | N/A | 4.7 | 3.7 | Pink |

FLAT PAR COLD CATHODE 120V, 25,000 HOUR



| | | | | | | | | | |
|---------|-------------------------|---|-------|-----|------|----|-----|-----|-------|
| 8PF3008 | 8 Watt Flat Par30 Clear | 8 | 35-40 | 260 | 2700 | 82 | 4.9 | 3.7 | Clear |
| 8PF3808 | 8 Watt Flat Par38 Clear | 8 | 35-40 | 300 | 2700 | 82 | 5.3 | 4.8 | Clear |

Specialty Options

GR Green Coated Glass*

BL Blue Coated Glass*

RD Red Coated Glass*

Y Yellow Coated Glass*

CL Clear Glass

F Frosted Glass

WH White Frosted Glass

LV Warm White Frosted Glass*

P Pink Phosphor*

41K 4100°K Color Temperature*

* Special Order – Call for Availability



MORE REASONS TO USE COLD CATHODES...

- Ideal choice for signs, marquees, and accent lighting
- Suitable for indoor and outdoor (base up) applications
- Energy saving replacing 15-40 watt incandescent bulbs
- Excellent for Flashing and Dimming applications without impacting lamp life
- Infinite dimming from 100 to 10%
- Innovative diagonal mount tube and center post design increases structural integrity of the 8 watt lamp
- Color-coated bulbs UV resistant to fading



Cold Cathode Warranty

**25,000 Hour Cold Cathode 24 Month Warranty
LIMITED WARRANTY**

This TCP product is warranted for a period of 24 months 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 (325 Campus Dr., Aurora, OH 44202) along with the original sales receipt within 24 months 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.

Some of our products contain mercury. Manage according to Local, State, or Federal Disposal Laws See: www.lamprecycle.org or call 1-800-771-9335

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

With the high quality standards all our products must meet, you are guaranteed to have a lighting source that performs in the harshest environments. We've even established a UL client testing laboratory at our corporate headquarters to ensure the safety of every product you use. Our lab is ISO 17025 compliant.



800.324.1496 | tcp.com

LED Lamps

2010 LAMPS & BALUSTS
Fall/Winter Catalog

TCP is investing in the bright future of LEDs. Longer life, brilliant light, and higher efficiency are driving our innovation. LEDs are durable, long lasting, and are ideally suited for cold, rough service and hard to reach environments both indoors and outdoors. With strategic global partnerships in place, TCP is poised to become the leader in this exciting, and rapidly growing, lighting category.

Applications:

- Hotels
- Atriums
- Bridges
- Casinos
- Restaurants
- Theaters
- Retail and Display Lighting
- Chandeliers
- Police/Fire Emergency Lights
- Indicator Lights
- Manufacturing Lines

LEDs

FEATURES / BENEFITS

- Long life; 25,000 – 50,000 hours
- LED lamps are excellent for rapid cycling, vibration and hard-to-reach applications
- Extremely low energy consumption
- Excellent color consistency from bulb to bulb
- Available in vibrant LED colors



LR Series – Reflectors



LG Series – Festive Globes



LC Series – Decorative



Holiday Lights



LT Series – Indicator Lamps



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LED Lamps

2010 LAMPS & BALLASTS
Fall/Winter Catalog

Dimmable LED Deco Lamps

LED BULB LAMPS – CLEAR DECORATIVE, FULLY DIMMABLE, 25,000 HOURS



Fully Dimmable!
from 0% to 100%

| Item Number | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Voltage | MOL/Height (Inches) | Diameter | Color | Lamp Finish | Lumens | Base Type | STK or SPC |
|--------------|--|------------|---------------------------------|---------|---------------------|----------|---------------|-------------|--------|-----------|------------|
| LDCT3WH30K | LED 3 Watt Decorative Candelabra Torpedo, White (3000K) | 2.6 | 15 - 25 | 120 | 4.2 | 1.25 | White (3000K) | Clear | 92 | E12 | STK |
| LDCF3WH30K | LED 3 Watt Decorative Candelabra Flame, White (3000K) | 2.6 | 15 - 25 | 120 | 4.7 | 1.25 | White (3000K) | Clear | 85 | E12 | STK |
| LDCT3WH30KCC | LED 3 Watt Decorative Candelabra Torpedo, Crystal Cut, White (3000K) | 2.6 | 15-25 | 120 | 4.2 | 1.2 | White (3000K) | Crystal Cut | 85 | E12 | STK |
| LDCG163WH30K | LED 3 Watt G16.5 Candelabra Globe, White (3000K) | 2.6 | 15-25 | 120 | 2.8 | 2.0 | White (3000K) | Clear | 85 | E12 | STK |
| LDT3WH30K | LED 3 Watt Decorative Torpedo, White (3000K) | 2.6 | 15 - 25 | 120 | 4.2 | 1.25 | White (3000K) | Clear | 92 | E26 | STK |
| LDF3WH30K | LED 3 Watt Decorative Flame, White (3000K) | 2.6 | 15 - 25 | 120 | 4.7 | 1.25 | White (3000K) | Clear | 85 | E26 | STK |
| LDT3WH30KCC | LED 3 Watt Decorative Torpedo, Crystal Cut, White (3000K) | 2.6 | 15-25 | 120 | 4.2 | 1.25 | White (3000K) | Crystal Cut | 85 | E26 | STK |
| LDG163WH30K | LED 3 Watt G16.5 Globe, White (3000K) | 2.6 | 15-25 | 120 | 2.8 | 2.0 | White (3000K) | Clear | 85 | E26 | STK |
| LDA153WH30K | LED 3 Watt Decorative A-Lamp, White (3000K) | 2.6 | 15-25 | 120 | 4.2 | 2.0 | White (3000K) | Clear | 85 | E26 | STK |



NO COMPROMISES

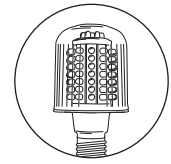
These fully dimmable lamps are perfect for applications such as chandeliers and decorative wall fixtures and UL Damp Location rating makes them perfect for outdoor fixtures such as coach and porch lights.

Plus these LED lamps are incredibly energy efficient – using only 2.6 watts! So they can pay themselves back quickly on energy savings alone.



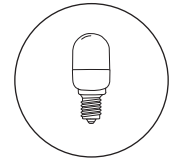
Indicator Lights R Series Lamps

| Item Number | Item Description | Lamp Watts | Voltage | MOL/Height (Inches) | Diameter | Color | Lumens | Base Type | STK or SPC |
|---|---------------------------------------|------------|---------|---------------------|----------|---------------|--------|-----------|------------|
| LT20 LED INDICATOR LAMPS, 50,000 HOURS | | | | | | | | | |
| LT20AMB | LED T20 Indicator Light Amber | 5 | 120 | 4.8 | 2.5 | Amber | - | E26 | STK |
| LT20BL | LED T20 Indicator Light Blue | 5 | 120 | 4.8 | 2.5 | Blue | - | E26 | STK |
| LT20GR | LED T20 Indicator Light Green | 5 | 120 | 4.8 | 2.5 | Green | - | E26 | STK |
| LT20RD | LED T20 Indicator Light Red | 5 | 120 | 4.8 | 2.5 | Red | - | E26 | STK |
| LT20WH50K | LED T20 Indicator Light White (5000K) | 5 | 120 | 4.8 | 2.5 | White (5000K) | 50 | E26 | STK |



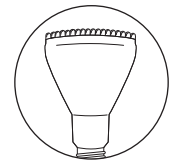
cUL us **5 YEAR WARRANTY**

| LED T6 1/2 WATT INDICATOR LIGHT, 25,000 HOURS | | | | | | | | | |
|--|---|-----|-----|-----|-----|---------------|---|-----|-----|
| LT605WAMB | LED 1/2W T6 Candelabra Indicator Light Amber | 0.5 | 120 | 1.9 | 0.8 | Amber | - | E12 | SPC |
| LT605WBL | LED 1/2W T6 Candelabra Indicator Light Blue | 0.5 | 120 | 1.9 | 0.8 | Blue | - | E12 | SPC |
| LT605WGR | LED 1/2W T6 Candelabra Indicator Light Green | 0.5 | 120 | 1.9 | 0.8 | Green | - | E12 | SPC |
| LT605WRD | LED 1/2W T6 Candelabra Indicator Light Red | 0.5 | 120 | 1.9 | 0.8 | Red | - | E12 | STK |
| LT605WH30K | LED 1/2W T6 Candelabra Indicator Light, White (3000K) | 0.5 | 120 | 1.9 | 0.8 | White (3000K) | 8 | E12 | STK |
| LT605WH50K | LED 1/2W T6 Candelabra Indicator Light, White (5000K) | 0.5 | 120 | 1.9 | 0.8 | White (5000K) | 8 | E12 | STK |



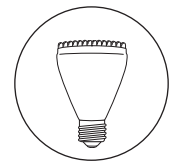
cUL us **3 YEAR WARRANTY**

| LR30 LED LAMP, 50,000 HOURS | | | | | | | | | |
|------------------------------------|-----------------------------------|---|-----|-----|-----|-------------------|-----|-----|-----|
| LR30AMB | LED R30 Flood Amber | 6 | 120 | 5.2 | 3.8 | Amber | - | E26 | SPC |
| LR30AMBWH30K | LED R30 Flood Amber/White (3000K) | 6 | 120 | 5.2 | 3.8 | Amber/White 3000K | 180 | E26 | STK |
| LR30BL | LED R30 Flood Blue | 6 | 120 | 5.2 | 3.8 | Blue | - | E26 | SPC |
| LR30GR | LED R30 Flood Green | 6 | 120 | 5.2 | 3.8 | Green | - | E26 | SPC |
| LR30RD | LED R30 Flood Red | 6 | 120 | 5.2 | 3.8 | Red | - | E26 | SPC |
| LR30WH30K | LED R30 Flood White (3000K) | 6 | 120 | 5.2 | 3.8 | White 3000K | 230 | E26 | STK |



cUL us **5 YEAR WARRANTY**

| LR20 LED LAMP, 50,000 HOURS | | | | | | | | | |
|------------------------------------|-----------------------------------|---|-----|-----|-----|-------------------|-----|-----|-----|
| LR20AMB | LED R20 Flood Amber | 4 | 120 | 3.8 | 2.5 | Amber | - | E26 | SPC |
| LR20AMBWH30K | LED R20 Flood Amber/White (3000K) | 4 | 120 | 3.8 | 2.5 | Amber/White 3000K | 100 | E26 | STK |
| LR20BL | LED R20 Flood Blue | 4 | 120 | 3.8 | 2.5 | Blue | - | E26 | SPC |
| LR20GR | LED R20 Flood Green | 4 | 120 | 3.8 | 2.5 | Green | - | E26 | SPC |
| LR20RD | LED R20 Flood Red | 4 | 120 | 3.8 | 2.5 | Red | - | E26 | SPC |
| LR20WH30K | LED R20 Flood White (3000K) | 4 | 120 | 3.8 | 2.5 | White 3000K | 130 | E26 | STK |



cUL us **5 YEAR WARRANTY**

Call for availability on special order items (SPC)

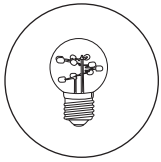
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LED Lamps

2010 LAMPS & BALLASTS
Fall/Winter Catalog

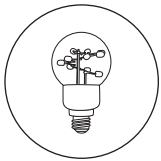
Festive™ Lights

LG16 LED FESTIVE™ LAMPS – 120 VOLT, 50,000 HOURS



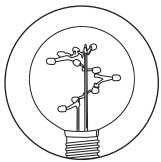
| Item Number | Item Description | Lamp Watts | Voltage | MOL/Height (Inches) | Diameter | Color | Lumens | Base Type | STK or SPC |
|---------------|---|------------|---------|---------------------|----------|---------------|--------|-----------|------------|
| LG16120VAMB | LED G16 120V Festive Amber | 1 | 120 | 3.0 | 2.0 | Amber | - | E26 | SPC |
| LG16120VTIV | LED G16 120V Festive Tivoli White (1900K) | 1 | 120 | 3.0 | 2.0 | White (1900K) | 15 | E26 | STK |
| LG16120VWH30K | LED G16 120V Festive White (3000K) | 1 | 120 | 3.0 | 2.0 | White (3000K) | 20 | E25 | STK |
| LG16120VWH50K | LED G16 120V Festive White (5000K) | 1 | 120 | 3.0 | 2.0 | White (5000K) | 25 | E26 | STK |

LG16 LED FESTIVE™ CANDELABRA BASED LAMPS – 120 VOLT, 50,000 HOURS



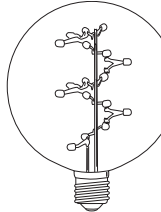
| | | | | | | | | | |
|----------------|--|---|-----|-----|-----|---------------|----|-----|-----|
| LG16C120VAMB | LED G16 Candelabra 120V Festive Amber | 1 | 120 | 3.0 | 2.0 | Amber | - | E12 | SPC |
| LG16C120VTIV | LED G16 Candelabra 120V Festive Tivoli White (1900K) | 1 | 120 | 3.0 | 2.0 | White (1900K) | 15 | E12 | STK |
| LG16C120VWH30K | LED G16 Candelabra 120V Festive White (3000K) | 1 | 120 | 3.0 | 2.0 | White (3000K) | 20 | E12 | STK |
| LG16C120VWH50K | LED G16 Candelabra 120V Festive White (5000K) | 1 | 120 | 3.0 | 2.0 | White (5000K) | 25 | E12 | STK |

LG25 LED FESTIVE™ LAMPS – 120 VOLT, 50,000 HOURS



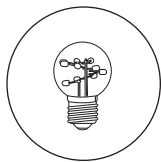
| | | | | | | | | | |
|---------------|---|---|-----|-----|-----|---------------|----|-----|-----|
| LG25120VAMB | LED G25 120V Festive Amber | 1 | 120 | 4.2 | 3.1 | Amber | - | E26 | SPC |
| LG25120VTIV | LED G25 120V Festive Tivoli White (1900K) | 1 | 120 | 4.2 | 3.1 | White (1900K) | 20 | E26 | STK |
| LG25120VWH30K | LED G25 120V Festive White (3000K) | 1 | 120 | 4.2 | 3.1 | White (3000K) | 30 | E26 | STK |
| LG25120VWH50K | LED G25 120V Festive White (5000K) | 1 | 120 | 4.2 | 3.1 | White (5000K) | 45 | E26 | STK |

LG40LED FESTIVE™ LAMPS – 120 VOLT, 50,000 HOURS



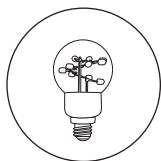
| | | | | | | | | | |
|---------------|---|---|-----|-----|-----|---------------|----|-----|-----|
| LG40120VAMB | LED G40 120V Festive Amber | 1 | 120 | 6.0 | 5.0 | Amber | - | E26 | SPC |
| LG40120VTIV | LED G40 120V Festive Tivoli White (1900K) | 1 | 120 | 6.0 | 5.0 | White (1900K) | 20 | E26 | STK |
| LG40120VWH30K | LED G40 120V Festive White (3000K) | 1 | 120 | 6.0 | 5.0 | White (3000K) | 35 | E26 | STK |
| LG40120VWH50K | LED G40 120V Festive White (5000K) | 1 | 120 | 6.0 | 5.0 | White (5000K) | 45 | E26 | STK |

LG16 LED FESTIVE™ LAMPS – 24 VOLT, 50,000 HOURS



| | | | | | | | | | |
|--------------|-----------------------------------|---|----|-----|-----|---------------|----|-----|-----|
| LG1624VAMB | LED G16 24V Festive Amber | 1 | 24 | 3.0 | 2.0 | Amber | - | E26 | SPC |
| LG1624VWH50K | LED G16 24V Festive White (5000K) | 1 | 24 | 3.0 | 2.0 | White (5000K) | 25 | E26 | SPC |

LG16 LED FESTIVE™ CANDELABRA BASED LAMPS – 24 VOLT, 50,000 HOURS



| | | | | | | | | | |
|---------------|--|---|----|-----|-----|---------------|----|-----|-----|
| LG16C24VAMB | LED G16 Candelabra 24V Festive Amber | 1 | 24 | 3.0 | 2.0 | Amber | - | E12 | SPC |
| LG16C24VWH50K | LED G16 Candelabra 24V Festive White (5000K) | 1 | 24 | 3.0 | 2.0 | White (5000K) | 25 | E12 | SPC |

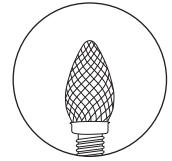
5 YEAR
WARRANTY

Call for availability on special order items (SPC)

| Item Number | Item Description | Lamp Watts | Voltage | MOL/Height (Inches) | Diameter | Color | Lumens | Base Type | STK or SPC | Decorative Lights |
|-------------|------------------|------------|---------|---------------------|----------|-------|--------|-----------|------------|-------------------|
|-------------|------------------|------------|---------|---------------------|----------|-------|--------|-----------|------------|-------------------|

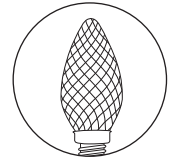
LED C7 CANDELABRA DECORATIVE LIGHT, 25,000 HOURS

| | | | | | | | | | |
|----------|--------------------|---|-----|-----|-----|---------------|---|-----|-----|
| LC7AMB | LED C7 Amber | 1 | 120 | 2.4 | 0.9 | Amber | - | E12 | SPC |
| LC7BL | LED C7 Blue | 1 | 120 | 2.4 | 0.9 | Blue | - | E12 | SPC |
| LC7GR | LED C7 Green | 1 | 120 | 2.4 | 0.9 | Green | - | E12 | SPC |
| LC7RD | LED C7 Red | 1 | 120 | 2.4 | 0.9 | Red | - | E12 | SPC |
| LC7WH30K | LED C7 White 3000K | 1 | 120 | 2.4 | 0.9 | White (3000K) | 8 | E12 | STK |
| LC7WH50K | LED C7 White 5000K | 1 | 120 | 2.4 | 0.9 | White (5000K) | 8 | E12 | STK |



LED C9 CANDELABRA DECORATIVE LIGHT, 25,000 HOURS

| | | | | | | | | | |
|----------|--------------------|---|-----|---|------|---------------|---|-----|-----|
| LC9AMB | LED C9 Amber | 1 | 120 | 3 | 1.16 | Amber | - | E12 | SPC |
| LC9BL | LED C9 Blue | 1 | 120 | 3 | 1.16 | Blue | - | E12 | SPC |
| LC9GR | LED C9 Green | 1 | 120 | 3 | 1.16 | Green | - | E12 | SPC |
| LC9RD | LED C9 Red | 1 | 120 | 3 | 1.16 | Red | - | E12 | SPC |
| LC9WH30K | LED C9 White 3000K | 1 | 120 | 3 | 1.16 | White (3000K) | 8 | E12 | STK |
| LC9WH50K | LED C9 White 5000K | 1 | 120 | 3 | 1.16 | White (5000K) | 8 | E12 | STK |

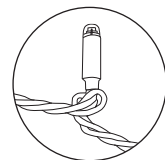


3 YEAR WARRANTY

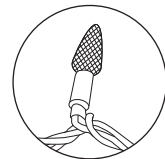
| Item Number | Energy Star | Item Description | Lamp Watts | Incandescent Comparison (Watts) | Volts | # of LEDs | Lighted Length | LOC | Color | STK or SPC |
|-------------|-------------|------------------|------------|---------------------------------|-------|-----------|----------------|-----|-------|------------|
|-------------|-------------|------------------|------------|---------------------------------|-------|-----------|----------------|-----|-------|------------|

50, 100 LED HOLIDAY LIGHTS, 50,000 HOURS

| | | | | | | | | | | |
|--------------|---|----------------------------|-----|----|-----|-----|--------|------|---------------|-----|
| L50XMWH | ★ | LED 50 Holiday White | 4.6 | 20 | 120 | 50 | 16' 8" | 4.0" | White | SPC |
| L50XMWMWH | ★ | LED 50 Holiday Warm White | 4.6 | 20 | 120 | 50 | 16' 8" | 4.0" | Warm White | SPC |
| L50XMMULTI | ★ | LED 50 Holiday Multi | 2.4 | 20 | 120 | 50 | 16' 8" | 4.0" | Multi R,Y,B,G | SPC |
| L50XMSMULTI | ★ | LED 50 Holiday Multi C3 | 2.4 | 20 | 120 | 50 | 16' 8" | 4.0" | Multi R,Y,B,G | SPC |
| L100XMAMB | ★ | LED 100 Holiday Amber | 4.5 | 40 | 120 | 100 | 33' 4" | 4.0" | Amber | SPC |
| L100XMWH | ★ | LED 100 Holiday White | 9.1 | 40 | 120 | 100 | 33' 4" | 4.0" | White | SPC |
| L100XMWMWH | ★ | LED 100 Holiday Warm White | 9.1 | 40 | 120 | 100 | 33' 4" | 4.0" | Warm White | SPC |
| L100XMSMULTI | ★ | LED 100 Holiday Multi C3 | 5.3 | 40 | 120 | 100 | 33' 4" | 4.0" | Multi R,Y,B,G | SPC |
| L100XMMULTI | ★ | LED 100 Holiday Multi | 5.3 | 40 | 120 | 100 | 33' 4" | 4.0" | Multi R,Y,B,G | SPC |



Regular



C3-Shape

HOLIDAY LIGHTS SUBJECT TO CHANGE. CHECK OFTEN FOR NEW ITEMS.

3 YEAR WARRANTY

LED Warranty

LIMITED WARRANTY

This TCP product is warranted for the period, as specified in each product section of this catalogue, from the date of purchase against defects in material and workmanship. If this product should fail to operate due to defects in material or workmanship, simply return this product to the place of purchase or to TCP Service Center (325 Campus Drive, Aurora, OH 44202) along with the original sales receipt within the number of years of purchase, as specified in each product section. 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.



800.324.1496 | tcpj.com

HID Lamps

2010 LAMPS & BALUSTS
Fall/Winter Catalog

TCP's robust HID product selection is one of the reasons TCP is the energy efficient lighting leader. Our Metal Halide products feature Pulse Plus™ starting for fast warm-up. We also offer several lamps featuring UV Guard™ which provides up to a 90% reduction in ultraviolet light output. Rounding out this category, our High Pressure Sodium lamps are practical, long lasting, and efficient.

Applications:

- Street Lights
- Parking Lots
- Roadways
- Warehouses
- Interior High Bays
- Exterior/Landscape Lighting
- Industrial Lighting

HID

FEATURES / BENEFITS

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



LU35/MED



MH 400W/U



MH 1000W/U



MP 350W/BU/UVG/PS



LU1000/MOG



MH 175W/C/U



MP 70W/U/UVG/PS



MP 400W/BU/UVG



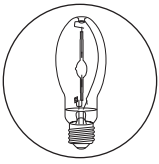
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HID Lamps

2010 LAMPS & BALUSTS
Fall/Winter Catalog

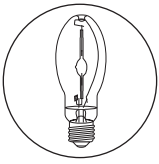
Metal Halide Pulse Plus

50 WATT PULSE PLUS METAL HALIDE, 1-2 MINUTES WARM UP TIME



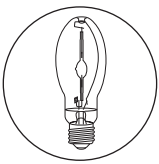
| Item Number | Item Description | ANSI Ballast Code | Initial Lumens | Mean Lumens | Lamp Life | CCT (Kelvin) | Restrike (Minutes) | CRI | Finish | Operating Position | Base | Bulb Type | Stocking or Special |
|-------------|----------------------|-------------------|----------------|----------------|-----------------|--------------|--------------------|-----|--------|--------------------|------|-----------|---------------------|
| 46110 | MH 50W/U/PS | M110/E | 3400V 3100H | 2200V 2000H | 10000V 7500H | 4000 | 1-2 | 65 | Clear | U | E26 | ED17 | STK |
| 46111 | MH 50W/C/U/PS | M110/E | 3200V 2900H | 2100V 1900H | 10000V 7500H | 3700 | 1-2 | 70 | Coated | U | E26 | ED17 | STK |
| 46112 | MP 50W/U/UVG/PS/3K | M110/O | 3200V 2900H | 2100V 1900H | 10000V 7500H | 3200 | 2-4 | 65 | Clear | U | E26 | EDX17 | STK |
| 46113 | MP 50W/C/U/UVG/PS/3K | M110/O | 3000V 2700H | 2000V 1800H | 10000V 7500H | 3200 | 2-4 | 70 | Coated | U | E26 | EDX17 | SPC |

70 WATT PULSE PLUS METAL HALIDE, 1-2 MINUTES WARM UP TIME



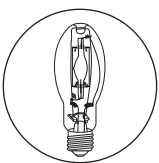
| | | | | | | | | | | | | | |
|-------|-------------------|-------|----------------|----------------|------------------|------|-----|----|--------|---|-----|-------|-----|
| 46120 | MH 70W/U/PS | M98/E | 5600V 5000H | 3600V 3300H | 15000V 11250H | 4000 | 1-2 | 65 | Clear | U | E26 | ED17 | STK |
| 46121 | MP 70W/C/U/PS | M98/E | 5300V 4800H | 3400V 3100H | 15000V 11250H | 3700 | 2-4 | 70 | Coated | U | E26 | ED17 | STK |
| 46124 | MP 70W/U/UVG/PS | M98/O | 5300V 4800H | 3400V 3100H | 15000V 11250H | 4000 | 2-4 | 65 | Clear | U | E26 | EDX17 | STK |
| 46127 | MP 70W/C/U/UVG/PS | M98/O | 5000V 4500H | 3300V 3000H | 15000V 11250H | 3700 | 2-4 | 70 | Coated | U | E26 | EDX17 | STK |

100 WATT PULSE PLUS METAL HALIDE, 1-2 MINUTES WARM UP TIME



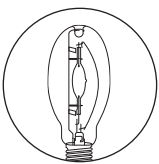
| | | | | | | | | | | | | | |
|-------|--------------------|-------|----------------|----------------|------------------|------|-----|----|--------|---|-----|-------|-----|
| 46130 | MH 100W/U/PS | M90/E | 9000V 8100H | 5900V 5300H | 15000V 11250H | 4000 | 2-4 | 65 | Clear | U | E26 | ED17 | STK |
| 46131 | MH 100W/C/U/PS | M90/E | 8500V 7700H | 5500V 5000H | 15000V 11250H | 3700 | 3-5 | 70 | Coated | U | E26 | ED17 | STK |
| 46132 | MH 100W/U/PS/3K | M90/E | 9000V 8100V | 5900V 5300H | 15000V 11250H | 3200 | 3-5 | 65 | Clear | U | E26 | ED17 | STK |
| 46133 | MH 100W/C/U/PS/3K | M90/E | 8500V 7700H | 5500V 5000H | 15000V 11250H | 3200 | 2-4 | 70 | Coated | U | E26 | ED17 | STK |
| 46136 | MP 100W/U/UVG/PS | M90/O | 8500V 7700H | 5500V 5000H | 15000V 11250H | 4000 | 3-5 | 65 | Clear | U | E26 | EDX17 | STK |
| 46139 | MP 100W/C/U/UVG/PS | M90/O | 8100V 7300H | 5300V 4800H | 15000V 11250H | 3700 | 3-5 | 70 | Coated | U | E26 | EDX17 | STK |
| 46134 | MH100W/U/ED28/PS | M90/E | 9000V 8100H | 5900V 5300H | 15000V 11250H | 4000 | 2-4 | 65 | Clear | U | E39 | ED28 | STK |

150 WATT PULSE PLUS METAL HALIDE, 1-2 MINUTES WARM UP TIME



| | | | | | | | | | | | | | |
|-------|---------------------------|--------|------------------|------------------|------------------|------|-----|----|--------|---|-----|-------|-----|
| 46156 | MH 150W/U/PS | M102/E | 14000V 12600H | 10500V 9500H | 9500V 8800H | 4000 | 2-4 | 65 | Clear | U | E26 | ED17 | STK |
| 46158 | MH 150W/U/ED28/PS | M102/E | 14000V 12600H | 10500V 9500H | 15000V 11250H | 4000 | 2-4 | 65 | Clear | U | E39 | ED28 | STK |
| 46150 | MP 150W/U/UVG/PS | M102/O | 13300V 12000H | 10000 V 9000H | 15000V 11250H | 4000 | 3-5 | 65 | Clear | U | E26 | EDX17 | STK |
| 46155 | MP 150W/C/U/UVG/ PS/3K | M102/O | 12600V 11300H | 9500V 8500H | 15000V 11250H | 3700 | 3-5 | 70 | Coated | U | E26 | EDX17 | STK |
| 46152 | MP 150W/U/UVG/PS/3K | M102/O | 13300V 12000H | 10000V 9000H | 15000V 11250H | 3200 | 3-5 | 65 | Clear | U | E26 | EDX17 | STK |

175 WATT PULSE PLUS METAL HALIDE, 1-2 MINUTES WARM UP TIME



| | | | | | | | | | | | | | |
|-------|---------------------|------------------|-------|-------|-------|------|-----|----|--------|----------|-----|------|-----|
| 46170 | MS 175W/BU/MED/PS | M152/E M137/E | 17500 | 14000 | 15000 | 4000 | 2-4 | 65 | Clear | BU+/-15° | E26 | ED17 | STK |
| 46171 | MS 175W/C/BU/MED/PS | M152/E M137/E | 16600 | 13300 | 15000 | 3700 | 2-4 | 70 | Coated | BU+/-15° | E26 | ED17 | SPC |
| 46174 | MS 175W/BU/PS | M152/E M137/E | 17500 | 14000 | 15000 | 4000 | 2-4 | 65 | Clear | BU+/-15° | E39 | ED28 | STK |
| 46175 | MS 175W/C/BU/PS | M152/E M137/E | 16600 | 13300 | 15000 | 3700 | 2-4 | 70 | Coated | BU+/-15° | E39 | ED28 | STK |
| 46176 | MP 175W/BU/UVG/PS | M152/O M137/O | 15000 | 12400 | 15000 | 4000 | 3-5 | 65 | Clear | BU+/-15° | E39 | ED28 | SPC |
| 46177 | MP 175W/C/BU/UVG/PS | M152/O M137/O | 14300 | 11400 | 15000 | 3700 | 3-5 | 70 | Coated | BU+/-15° | E39 | ED28 | SPC |

Call for availability on special (SPC)

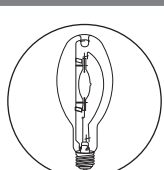
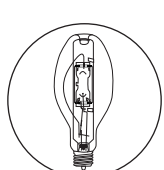
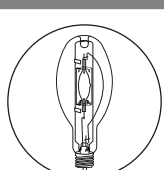
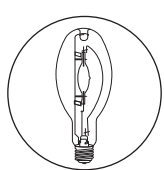
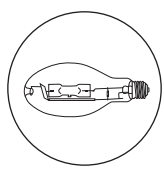
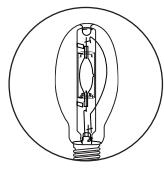
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HID Lamps

2010 LAMPS & BALLASTS
Fall/Winter Catalog

Metal Halide Pulse Plus

| Item Number | Item Description | ANSI Ballast Code | Initial Lumens | Mean Lumens | Lamp Life | CCT (Kelvin) | Restrike (Minutes) | CRI | Finish | Operating Position | Base | Bulb Type | Stocking or Special |
|---|------------------------------|-------------------|----------------|-------------|-----------|--------------|--------------------|-----|--------|--------------------|------|-----------|---------------------|
| 200 WATT PULSE PLUS METAL HALIDE, 1-2 MINUTES WARM UP TIME | | | | | | | | | | | | | |
| 46212 | MS 200W/V/PS | M136/E | 21000 | 16800 | 15000 | 4000 | 2-4 | 65 | Clear | V+/-15° | E39 | ED28 | SPC |
| 46213 | MS 200W/C/V/PS | M136/E | 20000 | 16000 | 15000 | 3700 | 2-4 | 70 | Coated | V+/-15° | E39 | ED28 | SPC |
| 46214 | MS 200W/BU/MED/PS | M136/E | 21000 | 16800 | 15000 | 4000 | 2-4 | 65 | Clear | BU+/-15° | E26 | ED17 | STK |
| 46210 | MP 200W/BU/UVG/PS | M136/O | 20000 | 16000 | 15000 | 4000 | 3-5 | 65 | Clear | BU+/-15° | EX39 | ED28 | SPC |
| 46215 | MP 200W/C/BU/UVG/PS | M136/O | 19000 | 15200 | 15000 | 3700 | 3-5 | 70 | Coated | BU+/-15° | EX39 | ED28 | SPC |
| 250 WATT PULSE PLUS METAL HALIDE, 2-3 MINUTES WARM UP TIME | | | | | | | | | | | | | |
| 46222 | MS 250W/V/PS | M153/E M138/E | 25000 | 20000 | 15000 | 4000 | 3-5 | 65 | Clear | V+/-15° | E39 | ED28 | STK |
| 46223 | MS 250W/C/V/PS | M153/E M138/E | 23800 | 19000 | 15000 | 3700 | 3-5 | 70 | Coated | V+/-15° | E39 | ED28 | SPC |
| 46226 | MS 250W/HOR/PS | M153/E M138/E | 22000 | 17600 | 15000 | 4000 | 3-5 | 65 | Clear | HOR +/-45° | E39 | ED28 | STK |
| 46224 | MP 250W/BU/UVG/PS | M153/O M138/O | 23800 | 19000 | 15000 | 4000 | 4-6 | 65 | Clear | BU+/-15° | EX39 | ED28 | STK |
| 46221 | MP 250W/C/BU/UVG/PS | M153/O M138/O | 22600 | 17600 | 15000 | 3700 | 4-6 | 70 | Coated | BU+/-15° | EX39 | ED28 | SPC |
| 320 WATT PULSE PLUS METAL HALIDE, 2-3 MINUTES WARM UP TIME | | | | | | | | | | | | | |
| 46236 | MS 320W/V/ED28/PS | M154/E M132/E | 33000 | 26000 | 20000 | 4000 | 4-6 | 65 | Clear | V+/-15° | E39 | ED28 | STK |
| 46232 | MS 320W/V/ED37/PS | M154/E M132/E | 33000 | 26000 | 20000 | 4000 | 4-6 | 65 | Clear | V+/-15° | E39 | ED37 | SPC |
| 46240 | MP 320W/BU/ED28/ UVG/PS | M154/O M132/O | 31000 | 25000 | 20000 | 4000 | 5-8 | 65 | Clear | BU+/-15° | EX39 | ED28 | STK |
| 46237 | MP 320W/C/BU/ED28/ UVG/PS | M154/O M132/O | 29000 | 23000 | 20000 | 3700 | 5-8 | 70 | Coated | BU+/-15° | EX39 | ED28 | STK |
| 46242 | MP 320W/BU/ED37/ UVG/PS | M154/O M132/O | 31000 | 25000 | 20000 | 4000 | 5-8 | 65 | Clear | BU+/-15° | EX39 | ED37 | SPC |
| 46239 | MP 320W/C/BU/ED37/ UVG/PS | M154/O M132/O | 29000 | 23000 | 20000 | 3700 | 5-8 | 70 | Coated | BU+/-15° | EX39 | ED37 | STK |
| 350 WATT PULSE PLUS METAL HALIDE, 2-3 MINUTES WARM UP TIME | | | | | | | | | | | | | |
| 46250 | MS 350W/V/PS | M131/E | 37000 | 29000 | 20000 | 4000 | 4-6 | 65 | Clear | V+/-15° | E39 | ED37 | SPC |
| 46253 | MS 350W/C/V/PS | M131/E | 35000 | 28000 | 20000 | 3700 | 4-6 | 70 | Coated | V+/-15° | E39 | ED37 | SPC |
| 46254 | MS 350W/V/ED28/PS | M131/E | 37000 | 29000 | 20000 | 4000 | 4-6 | 65 | Clear | V+/-15° | E39 | ED28 | SPC |
| 46258 | MP 350W/BU/UVG/PS | M131/O | 35000 | 28000 | 20000 | 4000 | 5-8 | 65 | Clear | BU+/-15° | EX39 | ED37 | SPC |
| 46257 | MP 350W/C/BU/UVG/PS | M131/O | 33000 | 26000 | 20000 | 3700 | 5-8 | 70 | Coated | BU+/-15° | EX39 | ED37 | STK |
| 46260 | MP 350W/BU/ED28/ UVG/PS | M131/O | 35000 | 28000 | 20000 | 4000 | 5-8 | 65 | Clear | BU+/-15° | EX39 | ED28 | SPC |
| 400 WATT PULSE PLUS METAL HALIDE, 2-3 MINUTES WARM UP TIME | | | | | | | | | | | | | |
| 46274 | MS 400W/V/PS | M155/E M135/E | 44000 | 35000 | 20000 | 4000 | 4-6 | 65 | Clear | V+/-15° | E39 | ED37 | STK |
| 46275 | MS 400W/C/V/PS | M155/E M135/E | 42000 | 33000 | 20000 | 3700 | 4-6 | 70 | Coated | V+/-15° | E39 | ED37 | SPC |
| 46273 | MS 400W/C/V/ED28/PS | M155/E M135/E | 42000 | 33000 | 20000 | 3700 | 4-6 | 70 | Coated | V+/-15° | E39 | ED28 | STK |
| 46280 | MP 400W/BU/UVG/PS | M155/O M135/O | 41000 | 33000 | 20000 | 4000 | 5-8 | 65 | Clear | BU+/-15° | EX39 | ED37 | STK |
| 46279 | MP 400W/C/BU/ED28/ UVG/PS | M155/O M135/O | 39000 | 31000 | 20000 | 3700 | 5-8 | 70 | Coated | BU+/-15° | EX39 | ED28 | STK |
| 46284 | MS 400W/HOR/PS | M155/E M135/E | 40000 | 32000 | 12000 | 4000 | 4-6 | 65 | Clear | HOR +/-45° | E39 | ED37 | SPC |
| 450 WATT PULSE PLUS METAL HALIDE, 2-3 MINUTES WARM UP TIME | | | | | | | | | | | | | |
| 46290 | MS 450W/V/PS | M144/E | 50000 | 40000 | 20000 | 4000 | 4-6 | 65 | Clear | V+/-15° | E39 | ED37 | SPC |
| 46292 | MP 450W/BU/UVG/PS | M144/O | 47000 | 37000 | 20000 | 4000 | 5-8 | 65 | Clear | BU+/-15° | EX39 | ED37 | SPC |



Call for availability on special (SPC)

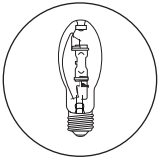
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HID Lamps

2010 LAMPS & BALLASTS
Fall/Winter Catalog

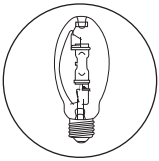
**Metal Halide
Probe Start
High Pressure
Sodium**

175 WATT STANDARD PROBE START METAL HALIDE, 3-5 MINUTES WARM UP TIME



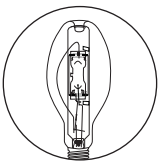
| Item Number | Item Description | ANSI Ballast Code | Initial Lumens | Mean Lumens | Lamp Life | CCT (Kelvin) | Restrike (Minutes) | CRI | Finish | Operating Position | Base | Bulb Type | Stocking or Special |
|-------------|------------------|-------------------|-------------------|-----------------|------------------|--------------|--------------------|-----|--------|--------------------|------|-----------|---------------------|
| 46310 | MH 175W/U | M57/E | 14000V 12600H | 9100V 8200H | 10000V 7500H | 4000 | 5-10 | 65 | Clear | U | E39 | ED28 | STK |
| 46311 | MH 175W/C/U | M57/E | 13300 V 12000H | 8600 V 7800H | 10000 V 7500H | 3700 | 5-10 | 70 | Coated | U | E39 | ED28 | STK |
| 46317 | MH 175W/U/MED | M57/E | 14000V 12600H | 9100V 8200H | 10000V 7500H | 4000 | 5-10 | 65 | Clear | U | E26 | ED17 | STK |
| 46319 | MH 175W/C/U/MED | M57/E | 13300V 12000H | 8600V 7800H | 10000V 7500H | 3700 | 5-10 | 70 | Coated | U | E26 | ED17 | STK |

250 WATT STANDARD PROBE START METAL HALIDE, 3-5 MINUTES WARM UP TIME



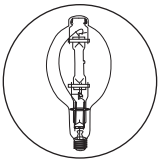
| | | | | | | | | | | | | | |
|-------|-------------|-------|------------------|------------------|-----------------|------|------|----|--------|---|-----|------|-----|
| 46320 | MH 250W/U | M58/E | 21000V 18900H | 13700V 12300H | 10000V 7500H | 4000 | 5-10 | 65 | Clear | U | E39 | ED28 | STK |
| 46321 | MH 250W/C/U | M58/E | 20000V 18000H | 13000V 11700H | 10000V 7500H | 3700 | 5-10 | 70 | Coated | U | E39 | ED28 | STK |

400 WATT STANDARD PROBE START METAL HALIDE, 3-5 MINUTES WARM UP TIME



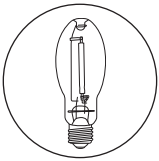
| | | | | | | | | | | | | | |
|-------|------------------|-------|------------------|------------------|------------------|------|------|----|--------|----------|------|------|-----|
| 46340 | MH 400W/U | M59/E | 36000V 32400H | 23000V 21100H | 20000V 15000H | 4000 | 7-12 | 65 | Clear | U | E39 | ED37 | STK |
| 46341 | MH 400W/C/U | M59/E | 34000V 30600H | 22000V 19900H | 20000V 15000H | 3700 | 7-12 | 70 | Coated | U | E39 | ED37 | STK |
| 46352 | MH 400W/U/ED28 | M59/E | 36000V 32400H | 23000V 21100H | 20000V 15000H | 4000 | 7-12 | 65 | Clear | U | E39 | ED28 | STK |
| 46347 | MH 400W/C/U/ED28 | M59/E | 34000V 30600H | 22000V 19900H | 20000V 15000H | 3700 | 7-12 | 70 | Coated | U | E39 | ED28 | SPC |
| 46344 | MS 400W/BU | M59/E | 40000 | 26000 | 20000 | 4000 | 7-12 | 65 | Clear | BU+/-15° | E39 | ED37 | SPC |
| 46345 | MS 400W/C/BU | M59/E | 38000 | 24000 | 20000 | 3700 | 7-12 | 70 | Coated | BU+/-15° | E39 | ED37 | SPC |
| 46346 | MP 400W/BU/UVG | M59/O | 36000 | 23000 | 20000 | 4000 | 7-12 | 65 | Clear | BU+/-15° | EX39 | ED37 | STK |

1000 WATT STANDARD PROBE START METAL HALIDE, 3-5 MINUTES WARM UP TIME

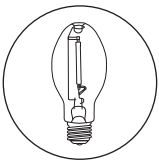


| | | | | | | | | | | | | | |
|-------|------------|-------|-------------------|------------------|-----------------|------|------|----|-------|---|-----|------|-----|
| 46370 | MH 1000W/U | M47/E | 110000V 99000H | 71000V 64400H | 12000V 9000H | 4000 | 7-12 | 65 | Clear | U | E39 | BT56 | STK |
|-------|------------|-------|-------------------|------------------|-----------------|------|------|----|-------|---|-----|------|-----|

HIGH PRESSURE SODIUM, 3 MINUTES WARM UP TIME



| Item Number | Item Description | ANSI | Initial Lumens | Mean Lumens | Lamp Life | CCT (Kelvin) | Warm Up (Minutes) | Restrike (Minutes) | CRI | Finish | Diameter (Inches) | Bulb Type | Stocking or Special |
|-------------|------------------|------|----------------|-------------|-----------|--------------|-------------------|--------------------|-----|--------|-------------------|-----------|---------------------|
| 48110 | LU35/MED | S76 | 2200 | 2000 | 16000+ | 1900 | 3 | 1 | 22 | Clear | 2.13 | ED17 | STK |
| 48120 | LU50/MED | S68 | 4000 | 3600 | 24000+ | 1900 | 3 | 1 | 22 | Clear | 2.13 | ED17 | STK |
| 48140 | LU70/MED | S62 | 6400 | 5800 | 24000+ | 2000 | 3 | 1 | 22 | Clear | 2.13 | ED17 | STK |
| 48160 | LU100/MED | S54 | 9000 | 7200 | 24000+ | 2000 | 3 | 1 | 22 | Clear | 2.13 | ED17 | STK |
| 48180 | LU150/55/MED | S55 | 16000 | 14400 | 24000+ | 2000 | 3 | 1 | 22 | Clear | 2.13 | ED17 | STK |



| Item Number | Item Description | ANSI | Initial Lumens | Mean Lumens | Lamp Life | CCT (Kelvin) | Warm Up (Minutes) | Restrike (Minutes) | CRI | Finish | Diameter (Inches) | Bulb Type | Stocking or Special |
|-------------|------------------|------|----------------|-------------|-----------|--------------|-------------------|--------------------|-----|--------|-------------------|-----------|---------------------|
| 48210 | LU50/MOG | S68 | 4000 | 3600 | 24000+ | 2000 | 3 | 1 | 22 | Clear | 3.00 | ED23.5 | SPC |
| 48220 | LU70/MOG | S62 | 6400 | 5800 | 24000+ | 2000 | 3 | 1 | 22 | Clear | 3.00 | ED23.5 | STK |
| 48230 | LU100/MOG | S54 | 9500 | 8500 | 24000+ | 2000 | 3 | 1 | 22 | Clear | 3.00 | ED23.5 | STK |
| 48240 | LU150/55/MOG | S55 | 16000 | 14400 | 24000+ | 2000 | 3 | 1 | 22 | Clear | 3.00 | ED23.5 | STK |
| 48250 | LU250/MOG | S50 | 28000 | 25200 | 24000+ | 2100 | 3 | 1 | 22 | Clear | 2.25 | ED18 | STK |
| 48260 | LU400/MOG | S51 | 50000 | 45000 | 24000+ | 2100 | 3 | 1 | 22 | Clear | 2.25 | ED18 | STK |
| 48270 | LU1000/MOG | S52 | 130000 | 117000 | 24000+ | 2100 | 3 | 2 | 22 | Clear | 3.12 | E25 | STK |

Call for availability on special (SPC)

HID Warranties

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 (325 Campus Drive, Aurora, OH 44202) 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.

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: MP100W/U/UVG/PS, 100 watt Pulse Plus lamp, open fixture rated, universal burning position, UV Guard™, 4000 Kelvin color temperature.

| MP | 100W | U | UVG | PS | |
|------------------------|--------------|-----------------------------|--------------------|------------------|--|
| Metal Halide Lamp Type | Lamp Wattage | Operating Position, Base-Up | Ultra Violet Guard | 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:

- 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.



Some of our products contain mercury. Manage according to Local, State, or Federal Disposal Laws See: www.lamprecycle.org or call 1-800-771-9335

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

With the high quality standards all our products must meet, you are guaranteed to have a lighting source that performs in the harshest environments. We've even established a UL client testing laboratory at our corporate headquarters to ensure the safety of every product you use. Our lab is ISO 17025 compliant.

800.324.1496 | tcp.com

HID Lamps

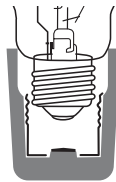
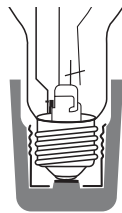
2010 LAMPS & BALLASTS
Fall/Winter Catalog

HID Technical Data

Open Fixture (Type-O) **Enclosed Fixture (Type-E)**

Medium Base

The narrower EDX17 neck allows full insertion into the socket.

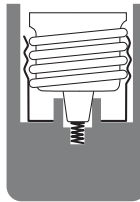


The wider bulb neck will not fit past ceramic neck of socket.

EX26 Socket

Mogul Base

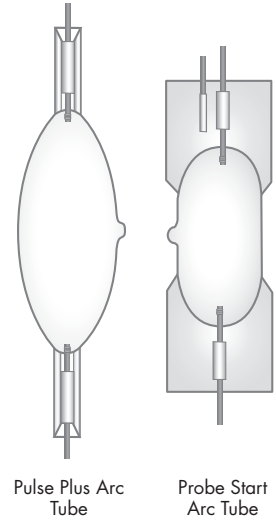
The extended center contact competes the circuit in the socket.



The standard center won't reach the contact in the dedicated socket.

EX39 Socket

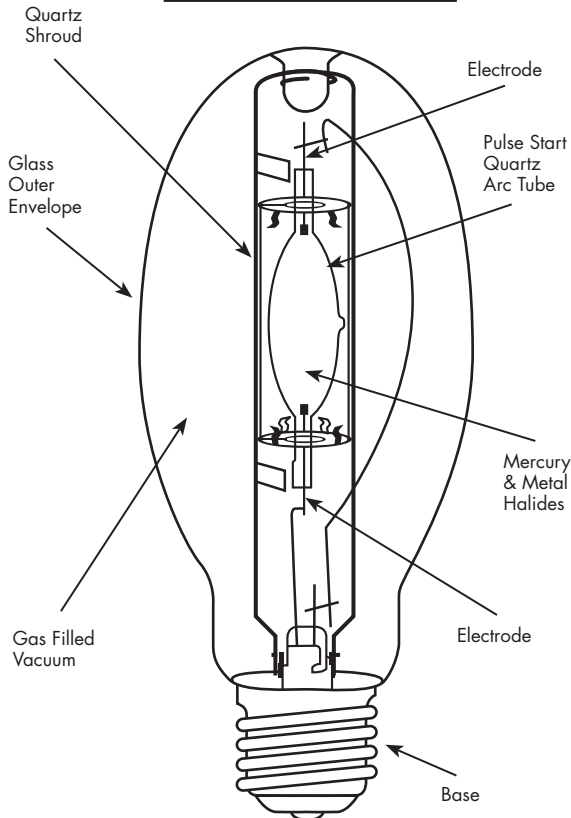
Open Fixtures need sockets that only accept Type-O lamps (pink mogul sockets) in order to prevent accidental use of Type-E or enclosed rated lamps.



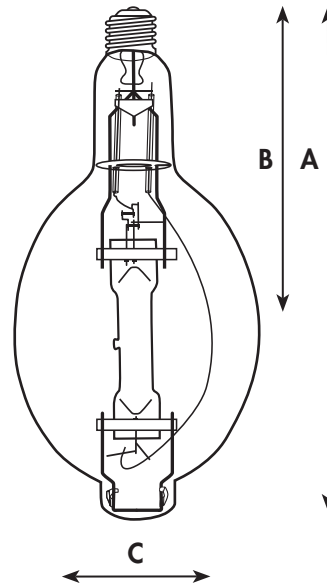
Pulse Plus Arc Tube

Probe Start Arc Tube

Pulse Plus MP Lamp

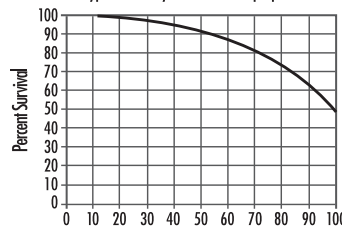


Refer to lamp specification for operating position

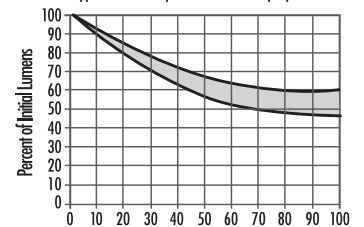


| Bulb | (A) MOL | (B) LCL | (C) Bulb Diameter |
|------|---------|---------|-------------------|
| ED17 | 5.44" | 3.38" | 2.13" |
| ED28 | 8.31" | 5.00" | 3.50" |
| ED37 | 11.5" | 7.00" | 4.63" |

Typical Mortality Curve—Base Up Operation



Typical Lumen Depreciation—Base Up Operation



Metal Halide Cross Reference Guide

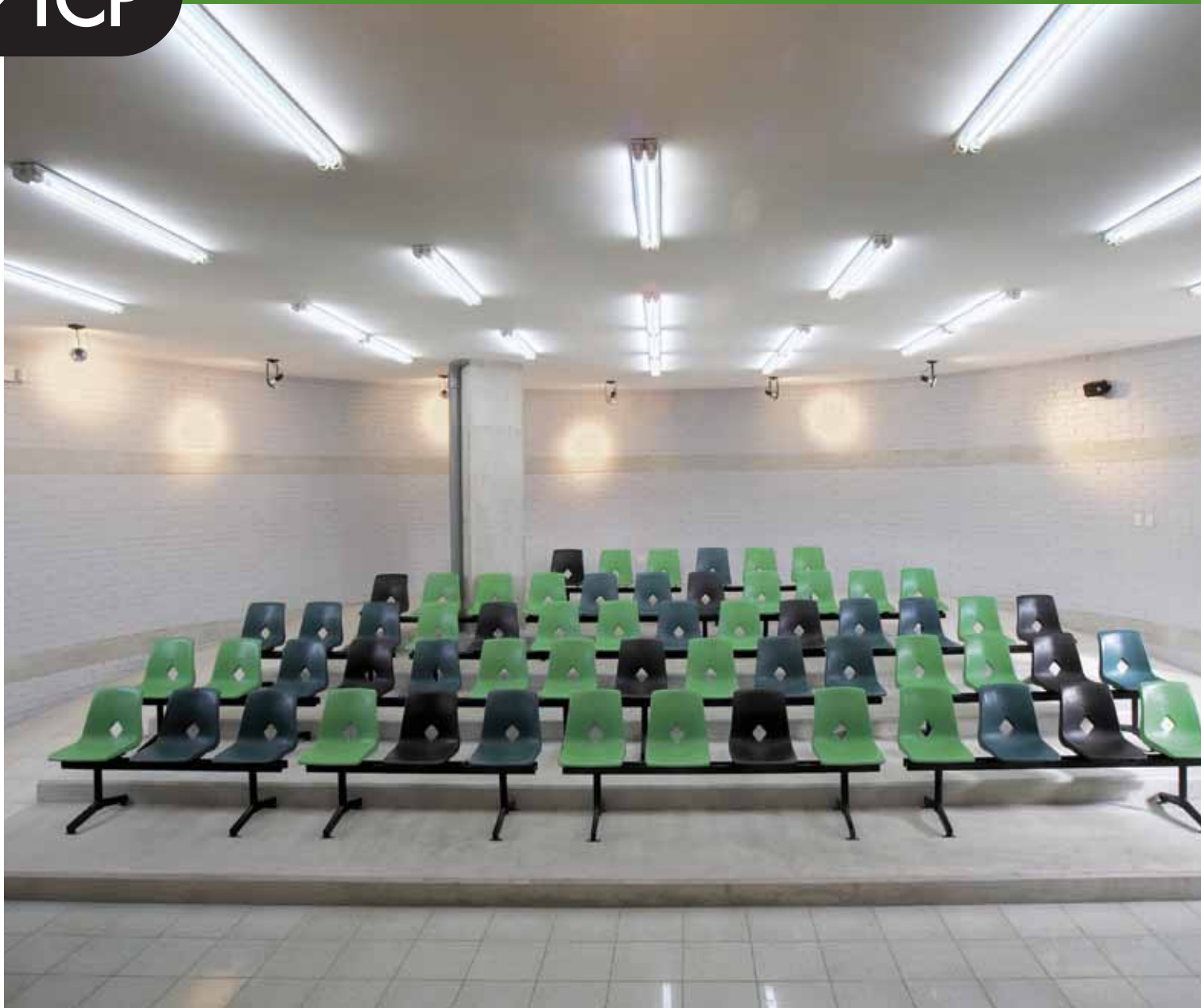


| ANSI Spec | TCP Item# | TCP Description | GE Item# | GE Description | O/S Item# | Osram/ Sylvania Description | Philips Item# | Philips Description | Venture Item# | Venture Description |
|--|-----------|--------------------------|----------|-----------------------|-----------|-----------------------------|---------------------------|---------------------|---------------|--------------------------|
| 50 WATT PULSE START METAL HALIDE | | | | | | | | | | |
| M110/E | 46110 | MH 50W/U/PS | 12581 | MVR50/U/MED | | | | | 52312 | MH 50W/U/PS |
| M110/E | 46111 | MH 50W/C/U/PS | 12583 | MVR50/C/U/MED | | | | | 13093 | MH 50W/C/U/PS |
| M110/O | 46112 | MP 50W/U/UVG/PS/3K | 45670 | MXR50/U/MED/O (3K) | 64587 | MP50/U/MED (3K) | | | 10226 | MP 50W/U/UVS/PS/3K |
| M110/O | 46113 | MP 50W/C/U/UVG/PS/3K | 45671 | MXR50/C/U/MED/O (3K) | 64588 | MP50/C/U/MED (3K) | | | 10381 | MP 50W/C/U/UVS/PS/3K |
| 70 WATT PULSE START METAL HALIDE | | | | | | | | | | |
| M98/E | 46120 | MH 70W/U/PS | 12590 | MVR70/U/MED | | | | | 78138 | MH 70W/U/PS |
| M98/E | 46121 | MH 70W/C/U/PS | 12594 | MVR70/C/U/MED | | | | | 12180 | MH 70W/C/U/PS |
| M98/E | 46122 | MH 70W/U/ED28/PS | | | | | | | 16017 | MH 70W/U/ED28/PS |
| M98/O | 46124 | MP 70W/U/UVG/PS | 12377 | MXR70/U/MED/O (3K) | 64547 | MP70/U/MED (3K) | | | 40389 | MP 70W/U/UVS/PS |
| M98/O | 46127 | MP 70W/C/U/UVG/PS | 12577 | MXR70/C/U/MED/O (3K) | 64546 | MP70/C/U/MED (3K) | | | 67115 | MP 70W/C/U/UVS/PS |
| 100 WATT PULSE START METAL HALIDE | | | | | | | | | | |
| M90/E | 46130 | MH 100W/U/PS | 12652 | MVR100/U/MED | | | | | 27266 | MH 100W/U/PS |
| M90/E | 46131 | MH 100W/C/U/PS | 12653 | MVR100/C/U/MED | | | | | 15823 | MH 100W/C/U/PS |
| M90/E | 46132 | MH 100W/U/PS/3K | 18680 | MVR100/U/MED (3K) | | | | | | |
| M90/E | 46133 | MH 100W/C/U/PS/3K | 18679 | MXR100/C/U/MED (3K) | | | | | | |
| M90/O | 46134 | MH 100W/U/ED28/PS | | | | | | | 67868 | MH 100W/U/ED28/PS |
| M90/O | 46136 | MP 100W/U/UVG/PS | 12381 | MXR100/U/MED/O (3K) | 64417 | MP100/U/MED | | | 96267 | MP 100W/U/UVS/PS |
| M90/O | 46139 | MP 100W/C/U/UVG/PS | 12579 | MXR100/C/U/MED/O (3K) | 64418 | MP100/C/U/MED | | | 11278 | MP 100W/C/U/UVS/PS |
| 175 WATT PULSE START METAL HALIDE (*175 WATT PULSE START LAMPS CAN ALSO HAVE AN ANSI CODE OF M137/E & M137/O) | | | | | | | | | | |
| M152/E | 46170 | MS 175W/V/MED/PS | | | | | | | 16497 | MS 175W/BU/MED/PS/740 |
| M152/E | 46171 | MS 175W/C/V/MED/PS | | | | | | | 34691 | MS 175W/C/BU/MED/PS/737 |
| M152/E | 46174 | MS 175W/BU/PS | 12622 | MVR175/VBU/PA | 64815 | MS175/PS/BU-ONLY | 27662-6 | MS175/BU/PS | 68475 | MS 175W/BU/PS |
| M152/E | 46175 | MS 175W/C/BU/PS | 12633 | MVR175/C/VBU/PA | 64816 | MS175/C/PS/BU-ONLY | | | 68246 | MS 175W/C/BU/PS |
| M152/O | 46176 | MP 175W/BU/UVG/PS | 49470 | MPR175/VBU/O | | | | | 69854 | MP 175W/BU/UVS/PS/740 |
| M152/O | 46177 | MP 175W/C/BU/UVG/PS | | | | | | | | |
| 200 WATT PULSE START METAL HALIDE | | | | | | | | | | |
| M136/E | 46212 | MS 200W/V/PS | | | 64838 | MS200/PS/BU-ONLY/BT28 | | | 55201 | MS 200W/V/PS |
| M136/E | 46213 | MS 200W/C/V/PS | | | 64839 | MS200/C/PS/BU-ONLY/BT28 | | | 55612 | MS 200W/C/V/PS |
| M136/E | 46214 | MS 200W/BU/MED/PS | | | | | | | 60811 | MS 200W/BU/MED/PS |
| M136/O | 46210 | MP 200W/BU/UVG/PS | | | | | | | 22147 | MP 200W/V/UVS/PS |
| M136/O | 46215 | MP 200W/C/BU/UVG/PS | | | | | | | 59174 | MP 200W/C/V/UVS/PS |
| 250 WATT PULSE START METAL HALIDE (*250 WATT PULSE START LAMPS CAN ALSO HAVE AN ANSI CODE OF M138/E & M138/O) | | | | | | | | | | |
| M153/E | 46222 | MS 250W/V/PS | 26317 | MVR250/VBU/PA | 64578 | MS250/PS/BU-ONLY | 27661-8 | MS250/BU/PS | 49621 | MS 250W/V/PS |
| M153/E | 46223 | MS 250W/C/V/PS | 26319 | MVR250/C/VBU/PA | 64617 | MS250/C/PS/BU-ONLY | | | 81365 | MS 250W/C/V/PS |
| M153/E | 46226 | MS 250W/HOR/PS | | | | | | | 81054 | MS 250W/H75/PS |
| M153/O | 46224 | MP 250W/BU/UVG/PS | 49471 | MPR250/VBU/O | 64789 | MP250/PS/BU-ONLY | | | 64658 | MP 250W/BU/UVS/PS |
| M153/O | 46221 | MP 250W/C/BU/UVG/PS | | | 64790 | MP250/C/PS/BU-ONLY | | | 32658 | MP 250W/C/BU/UVS/PS |
| 320 WATT PULSE START METAL HALIDE (*320 WATT PULSE START LAMPS CAN ALSO HAVE AN ANSI CODE OF M132/E & M132/O) | | | | | | | | | | |
| M154/E | 46236 | MS 320W/V/ED28/PS | 27501 | MVR320/VBU/HO/PA | 64507 | MS320/PS/BU-HOR | 38381-0 | MS320/U/PS | 59194 | MS 320W/V/ED28/PS |
| M154/E | 46232 | MS 320W/C/V/ED37/PS | | | | | | | 52236 | MS 320W/V/ED37/PS |
| M154/O | 46240 | MP 320W/BU/ED28/UVG/PS | | | | 64391 | MP320/350/PS/BU-ONLY/BT28 | | 10103 | MP 320W/BU/ED28/UVS/PS |
| M154/O | 46237 | MP 320W/C/BU/ED28/UVG/PS | 19609 | MPR320/C/ED28/PA | 64349 | MP320/350/C/PS/BU-ONLY/BT28 | | | 10104 | MP 320W/C/BU/ED28/UVS/PS |
| M154/O | 46242 | MP 320W/BU/ED37/UVG/PS | 46275 | MPR320/VBU/XHO/PA | | | 13039-3 | MP320/BU/PS | 21714 | MP 320W/BU/ED37/UVS/PS |
| M154/O | 46239 | MP 320W/C/BU/ED37/UVG/PS | 46276 | MPR320/C/VBU/XHO/PA | | | 13040-1 | MP320/C/BU/PS | 32795 | MP 320W/C/BU/ED37/UVS/PS |
| 350 WATT PULSE START METAL HALIDE | | | | | | | | | | |
| M131/E | 46250 | MS 350W/V/PS | 40376 | MVR350/VBU/XHO/PA | | | 38387-7 | MS350/BU/PS | 98389 | MS 350W/V/PS |
| M131/E | 46253 | MS 350W/C/V/PS | 40377 | MVR350/C/VBU/XHO/PA | | | 38388-5 | MS350/C/BU/PS | 71329 | MS 350W/C/V/PS |
| M131/E | 46254 | MS 350W/V/ED28/PS | | | | | | | 52980 | MS 350W/V/ED28/PS |
| M131/O | 46258 | MP 350W/V/UVG/PS | 10202 | MPR350/VBU/PA | 64769 | MP350/400/PS/BU-ONLY | 39101-1 | MP350/BU/PS | 22149 | MP 350W/V/UVS/PS |
| M131/O | 46257 | MP 350W/C/V/UVG/PS | 48824 | MPR350/C/VBU/PA | 64770 | MP350/400/C/PS/BU-ONLY | 39102-9 | MP350/C/BU/PS | 44097 | MP 350W/C/V/UVS/PS |
| M131/O | 46260 | MP 350W/BU/ED28/UVG/PS | | | 64391 | MP320/350/PS/BU-ONLY/BT28 | | | 47887 | MP 350W/V/ED28/UVS/PS |
| 400 WATT PULSE START METAL HALIDE (*400 WATT PULSE START LAMPS CAN ALSO HAVE AN ANSI CODE OF M135/E & M135/O) | | | | | | | | | | |
| M155/E | 46274 | MS 400W/V/PS | 12642 | MVR400/VBU/XHO/PA | 64525 | MS400/PS/BU-ONLY | 27816-8 | MS400/BU/PS | 73531 | MS 400W/V/PS |
| M155/E | 46275 | MS 400W/C/V/PS | 12644 | MVR400/C/VBU/XHO/PA | 64527 | MS400/C/PS/BU-ONLY | 28362-2 | MS400/C/BU/PS | 42401 | MS 400W/C/V/PS |
| M155/E | 46273 | MS 400W/C/V/ED28/PS | 46271 | MVR400/C/VBU/ED28/PA | | | | | 46416 | MS 400W/C/V/ED28/PS |
| M155/E | 46284 | MS 400W/HOR/PS | | | | | 14475-8 | MS400/HOR/PS | 58788 | MH 400W/H75/PS |
| M155/O | 46280 | MP 400W/BU/UVG/PS | 46273 | MPR400/VBU/XHO/PA | | | 13334-8 | MP400/BU/PS | 71642 | MP 400W/BU/UVS/PS |
| M155/O | 46279 | MP 400W/C/BU/ED28/UVG/PS | | | | | | | 88648 | MP 400W/C/BU/ED28/UVS/PS |
| 450 WATT PULSE START METAL HALIDE | | | | | | | | | | |
| M144/E | 46290 | MS 450W/V/PS | | | | | | | 10079 | MS 450W/V/PS |
| M144/O | 46292 | MP 450W/BU/UVG/PS | | | | | | | 65072 | MP 450W/BU/UVS/PS |
| 175 WATT STANDARD PROBE START METAL HALIDE | | | | | | | | | | |
| M57/E | 46310 | MH 175W/U | 47760 | MVR175/U | 64471 | M175/U | 28733-4 | MH175/U | 88791 | MH 175W/U |
| M57/E | 46311 | MH 175W/C/U | 47761 | MVR175/C/U | 64472 | M175/C/U | 28728-4 | MH175/C/U | 96627 | MH 175W/C/U |
| M57/E | 46317 | MH 175W/U/MED | 18902 | MVR175/U/MED | 64479 | M175/U/MED | 31358-5 | MH175/U/M | 15556 | MH 175W/U/MED |
| M57/E | 46319 | MH 175W/C/U/MED | 19976 | MVR175/C/U/MED | 64480 | M175/C/U/MED | 31359-3 | MH175/C/U/M | 63187 | MH 175W/C/U/MED |
| 400 WATT STANDARD PROBE START METAL HALIDE | | | | | | | | | | |
| M59/E | 46340 | MH 400W/U | 43828 | MVR400/U | 64490 | M400/U | 34415-0 | MH400/U | 18520 | MH 400W/U |
| M59/E | 46341 | MH 400W/C/U | 43829 | MVR400/C/U | 64492 | M400/C/U | 34416-8 | MH400/C/U | 83545 | MH 400W/C/U |
| M59/E | 46352 | MH 400W/U/ED28 | 18904 | MVR400/U/ED28 | 64488 | M400/U/ED28 | 27862-2 | MH400/U/ED28 | 57540 | MH 400W/U/ED28 |
| M59/E | 46347 | MH 400W/C/U/ED28 | 19979 | MVR400/C/U/ED28 | 64489 | M400/C/U/ED28 | | | 20753 | MH 400W/C/U/ED28 |
| M59/E | 46344 | MS 400W/BU | 49657 | MVR400/VBU/HO | 64450 | MS400/BU-ONLY | 30170-5 | MS400/BU | 47432 | MS 400W/BU |
| M59/E | 46345 | MS 400W/C/BU | 49656 | MVR400/C/VBU/HO | 64452 | MS400/C/BU-ONLY | 30172-1 | MS400/C/BU | 62957 | MS 400W/C/BU |
| M59/O | 46346 | MP 400W/BU/UVG | 18708 | MPR400/VBU/HO/O | 64705 | MP400/BU-ONLY | 13332-2 | MP400/BU | 95527 | MP 400W/BU |
| 1000 WATT STANDARD PROBE START METAL HALIDE | | | | | | | | | | |
| M47/E | 46370 | MH 1000W/U | 41826 | MVR1000/U | 64468 | M1000/U | 29826-5 | MH1000/U | 72051 | MH 1000W/U |
| SPECIALTY METAL HALIDE | | | | | | | | | | |
| M85/E | 46420 | MH-DE 70W/UVG/3K | 34530 | ARC70/TD/UVG/730 | 64360 | HQI-DE70/WDX | | | 16786 | MH-DE 70W/UVS/3K |
| M85/E | 46422 | MH-DE 70W/UVG/4K | 34536 | ARC70/TD/UVG/743 | 64362 | HQI-DE70/NDX | 30350-3 | MHN70/TD/840 | 60248 | MH-DE 70W/UVS/4K |
| M81/E | 46424 | MH-DE 150W/UVG/3K | 34527 | ARC150/TD/UVG/730 | 64366 | HQI-DE150/WDX | | | 11295 | MH-DE 150W/UVS/3K |
| M81/E | 46426 | MH-DE 150W/UVG/4K | 34535 | ARC150/TD/UVG/742 | 64368 | HQI-DE150/NDX | 30355-2 | MHN150/TD/840 | 74756 | MH-DE 150W/UVS/4K |

800.324.1496 | tcp.com

HID Lamps

2010 LAMPS & BALLASTS
Fall/Winter Catalog



TCP is committed to providing energy efficient lamps and ballasts. Our innovative technology and cost-effective energy saving systems will save you money. TCP's high efficiency T8 system provides a great selection for any application. TCP's universal voltage (120-277v) ballasts reduce the number of models in inventory, as well as eliminate incorrect line voltage wiring errors.

TCP is the only manufacturer you need to fulfill all your linear lighting needs.

In addition to our linear lamps and ballasts, check out our complete line of energy-efficient EcoVations™ fixtures.

Call 800.324.1496 today for a catalog, or visit us online at EcoVationsLighting.com

E C O V A T I O N S™

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Linear Lamps & Ballasts

2010 LAMPS & BALLASTS
Fall/Winter Catalog

Linear

Ballasts

FEATURES / BENEFITS

- Universal Voltage
- Multiple Ballast Factors
- Specialized Electronic Circuitry
- High Frequency
- 5 Year Warranty
- Quiet Operation
- Anti-Striation Control
- Active Power Factor Correction



2-Lamp T8 Ballast
E2P59ISUNV



3-Lamp T8 High Ballast
Factor Ballast
E3P32ISUNVHE



Emergency Ballast
20B60

Lamps

FEATURES / BENEFITS

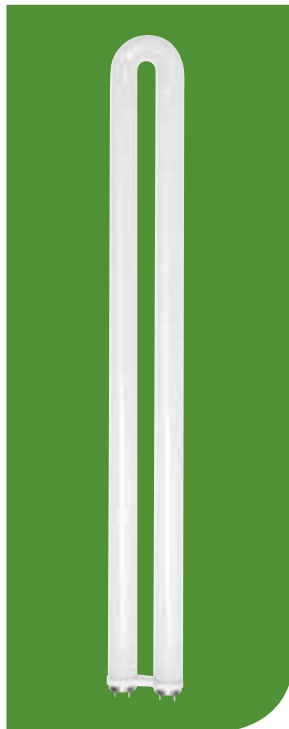
- Long Lamp Life
- High Initial Lumens
- Excellent Lumen Maintenance
- Low Operating Cost
- High Color Rendering
- Various Color Temperatures Available
- Shatter Resistant Coating Available



17W T8 Lamp
31017841



32W T8 Lamp
31032830



U-Bend Lamp
31031835U1



U-Bend Lamp
31032735U6

**Ballasts
T8 Lamps
T5 Lamps**

| Item Number | Item Description | Voltage | Ballast Factor | Number of Lamps | THD | Length (Inches) | Width (Inches) | Height (Inches) |
|-------------|------------------|---------|----------------|-----------------|-----|-----------------|----------------|-----------------|
|-------------|------------------|---------|----------------|-----------------|-----|-----------------|----------------|-----------------|

ELECTRONIC INSTANT START BALLASTS, 5 YEAR WARRANTY



| | | | | | | | | |
|--------------|---|---------|------|--------|------|-----|------|------|
| E4P32ISUNVHE | T8 4 Lamp Instant Start, High Ballast Factor, High Efficiency | 120-277 | 1.18 | 4 or 3 | <10% | 9.5 | 16.2 | 1.20 |
| E4P32ISUNVE | T8 4 Lamp Instant Start, Normal Ballast Factor, High Efficiency | 120-277 | 0.88 | 4 or 3 | <10% | 9.5 | 16.2 | 1.20 |
| E4P32ISUNVLE | T8 4 Lamp Instant Start, Low Ballast Factor, High Efficiency | 120-277 | 0.78 | 4 or 3 | <10% | 9.5 | 16.2 | 1.20 |
| E3P32ISUNVHE | T8 3 Lamp Instant Start, High Ballast Factor, High Efficiency | 120-277 | 1.18 | 3 or 2 | <10% | 9.5 | 16.2 | 1.20 |
| E3P32ISUNVE | T8 3 Lamp Instant Start, Normal Ballast Factor, High Efficiency | 120-277 | 0.88 | 3 or 2 | <10% | 9.5 | 16.2 | 1.20 |
| E3P32ISUNVLE | T8 3 Lamp Instant Start, Low Ballast Factor, High Efficiency | 120-277 | 0.78 | 3 or 2 | <10% | 9.5 | 16.2 | 1.20 |
| E2P32ISUNVHE | T8 2 Lamp Instant Start, High Ballast Factor, High Efficiency | 120-277 | 1.18 | 2 or 1 | <10% | 9.5 | 16.2 | 1.20 |
| E2P32ISUNVE | T8 2 Lamp Instant Start, Normal Ballast Factor, High Efficiency | 120-277 | 0.88 | 2 or 1 | <10% | 9.5 | 16.2 | 1.20 |
| E2P32ISUNVLE | T8 2 Lamp Instant Start, Low Ballast Factor, High Efficiency | 120-277 | 0.78 | 2 or 1 | <10% | 9.5 | 16.2 | 1.20 |
| E2P59ISUNV | T8 59W 2 lamp Instant Start, Normal Ballast Factor | 120-277 | 0.88 | 2 or 1 | <10% | 9.5 | 16.2 | 1.20 |

* Operates T8 32W, 28W, 25W and 17W Lamps

See spec sheet for input watts, current amps and ballast efficacy factor.

| Item Number | Item Description | Lamp Watts | Lamp Life (Hours) | Initial Lumens | Mean Lumens | CCT (Kelvin) | CRI | Diameter (Inches) | Length (Inches) | Base Type | Case Quantity |
|-------------|------------------|------------|-------------------|----------------|-------------|--------------|-----|-------------------|-----------------|-----------|---------------|
|-------------|------------------|------------|-------------------|----------------|-------------|--------------|-----|-------------------|-----------------|-----------|---------------|

T8 LAMPS



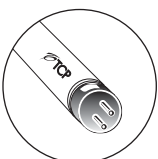
| | | | | | | | | | | | |
|----------|-----------|----|-------|------|------|------|----|---|----|---------------|----|
| 31032730 | F32T8/730 | 32 | 24000 | 2850 | 2710 | 3000 | 75 | 1 | 48 | Medium Bi-Pin | 25 |
| 31032735 | F32T8/735 | 32 | 24000 | 2850 | 2710 | 3500 | 75 | 1 | 48 | Medium Bi-Pin | 25 |
| 31032741 | F32T8/741 | 32 | 24000 | 2850 | 2710 | 4100 | 75 | 1 | 48 | Medium Bi-Pin | 25 |
| 31032830 | F32T8/830 | 32 | 24000 | 2950 | 2800 | 3000 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31032835 | F32T8/835 | 32 | 24000 | 2950 | 2800 | 3500 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31032841 | F32T8/841 | 32 | 24000 | 2950 | 2800 | 4100 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31032850 | F32T8/850 | 32 | 24000 | 2950 | 2800 | 5000 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31028830 | F28T8/830 | 28 | 24000 | 2725 | 2555 | 3000 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31028835 | F28T8/835 | 28 | 24000 | 2725 | 2555 | 3500 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31028841 | F28T8/841 | 28 | 24000 | 2725 | 2555 | 4100 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31028850 | F28T8/850 | 28 | 24000 | 2625 | 2470 | 5000 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31025730 | F25T8/730 | 25 | 24000 | 2125 | 1925 | 3000 | 75 | 1 | 36 | Medium Bi-Pin | 25 |
| 31025735 | F25T8/735 | 25 | 24000 | 2125 | 1925 | 3500 | 75 | 1 | 36 | Medium Bi-Pin | 25 |
| 31025741 | F25T8/741 | 25 | 24000 | 2125 | 1925 | 4100 | 75 | 1 | 36 | Medium Bi-Pin | 25 |
| 31032830 | F32T8/830 | 25 | 24000 | 2225 | 2050 | 3000 | 85 | 1 | 36 | Medium Bi-Pin | 25 |
| 31025835 | F25T8/835 | 25 | 24000 | 2225 | 2050 | 3500 | 85 | 1 | 36 | Medium Bi-Pin | 25 |
| 31025841 | F25T8/841 | 25 | 24000 | 2225 | 2050 | 4100 | 85 | 1 | 36 | Medium Bi-Pin | 25 |
| 31025850 | F25T8/850 | 25 | 24000 | 2225 | 2050 | 5000 | 85 | 1 | 36 | Medium Bi-Pin | 25 |
| 31017730 | F17T8/730 | 17 | 24000 | 1325 | 1200 | 3000 | 75 | 1 | 24 | Medium Bi-Pin | 25 |
| 31017735 | F17T8/735 | 17 | 24000 | 1325 | 1200 | 3500 | 75 | 1 | 24 | Medium Bi-Pin | 25 |
| 31017741 | F17T8/741 | 17 | 24000 | 1325 | 1200 | 4100 | 75 | 1 | 24 | Medium Bi-Pin | 25 |
| 31017830 | F17T8/830 | 17 | 24000 | 1400 | 1275 | 3000 | 85 | 1 | 24 | Medium Bi-Pin | 25 |
| 31017835 | F17T8/835 | 17 | 24000 | 1400 | 1275 | 3500 | 85 | 1 | 24 | Medium Bi-Pin | 25 |
| 31017841 | F17T8/841 | 17 | 24000 | 1400 | 1275 | 4100 | 85 | 1 | 24 | Medium Bi-Pin | 25 |
| 31017850 | F17T8/850 | 17 | 24000 | 1400 | 1275 | 5000 | 85 | 1 | 24 | Medium Bi-Pin | 25 |

T8 HIGH LUMEN LAMPS



| | | | | | | | | | | | |
|------------|--------------|----|-------|------|------|------|----|---|----|---------------|----|
| 31032830HL | F32T8/830/HL | 32 | 24000 | 3100 | 2915 | 3000 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31032835HL | F32T8/835/HL | 32 | 24000 | 3100 | 2915 | 3500 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31032841HL | F32T8/841/HL | 32 | 24000 | 3100 | 2915 | 4100 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31032850HL | F32T8/850/HL | 32 | 24000 | 3100 | 2915 | 5000 | 85 | 1 | 48 | Medium Bi-Pin | 25 |
| 31032865HL | F32T8/865/HL | 32 | 24000 | 3100 | 2915 | 6500 | 85 | 1 | 48 | Medium Bi-Pin | 25 |

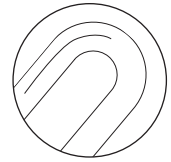
T5 LAMPS



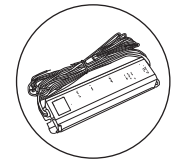
| | | | | | | | | | | | |
|------------|-------------|----|-------|------|------|------|----|-------|------|------------------|----|
| 31054830 | F54T5H0/830 | 54 | 24000 | 5000 | 4750 | 3000 | 85 | 0.625 | 45.2 | Miniature Bi-Pin | 40 |
| 31054835 | F54T5H0/835 | 54 | 24000 | 5000 | 4750 | 3500 | 85 | 0.625 | 45.2 | Miniature Bi-Pin | 40 |
| 31054841 | F54T5H0/841 | 54 | 24000 | 5000 | 4750 | 4100 | 85 | 0.625 | 45.2 | Miniature Bi-Pin | 40 |
| 31054850 | F54T5H0/850 | 54 | 24000 | 5000 | 4750 | 5000 | 85 | 0.625 | 45.2 | Miniature Bi-Pin | 40 |
| 31054865 | F54T5H0/865 | 54 | 24000 | 5000 | 4750 | 6500 | 85 | 0.625 | 45.2 | Miniature Bi-Pin | 40 |
| 31028T5830 | F28T5/830 | 28 | 20000 | 2900 | 2750 | 3000 | 85 | 0.625 | 45.2 | Miniature Bi-Pin | 40 |
| 31028T5835 | F28T5/835 | 28 | 20000 | 2900 | 2750 | 3500 | 85 | 0.625 | 45.2 | Miniature Bi-Pin | 40 |
| 31028T5841 | F28T5/841 | 28 | 20000 | 2900 | 2750 | 4100 | 85 | 0.625 | 45.2 | Miniature Bi-Pin | 40 |
| 31028T5850 | F28T5/850 | 28 | 20000 | 2750 | 2530 | 5000 | 85 | 0.625 | 45.2 | Miniature Bi-Pin | 40 |
| 31028T5865 | F28T5/865 | 28 | 20000 | 2750 | 2530 | 6500 | 85 | 0.625 | 45.2 | Miniature Bi-Pin | 40 |

T8 U-Bend Lamps
Linear Emergency Ballast

| Item Number | Item Description | Lamp Watts | Lamp Life (Hours) | Initial Lumens | Mean Lumens | CCT (Kelvin) | CRI | Diameter (Inches) | Length (Inches) | Height (Inches) | Base Type | Case Quantity |
|------------------------|------------------|------------|-------------------|----------------|-------------|--------------|-----|-------------------|-----------------|-----------------|-------------|---------------|
| T8 U-BEND LAMPS | | | | | | | | | | | | |
| 31032730U6 | FB32T8/730/6 | 32 | 20000 | 2750 | 2475 | 3000 | 75 | 1 | 22.5 | 6" leg | Med. Bi-Pin | 10 |
| 31032735U6 | FB32T8/735/6 | 32 | 20000 | 2750 | 2475 | 3500 | 75 | 1 | 22.5 | 6" leg | Med. Bi-Pin | 10 |
| 31032741U6 | FB32T8/741/6 | 32 | 20000 | 2750 | 2475 | 4100 | 75 | 1 | 22.5 | 6" leg | Med. Bi-Pin | 10 |
| 31032750U6 | FB32T8/750/6 | 32 | 20000 | 2750 | 2475 | 5000 | 75 | 1 | 22.5 | 6" leg | Med. Bi-Pin | 10 |
| 31032830U6 | FB32T8/830/6 | 32 | 20000 | 2900 | 2755 | 3000 | 85 | 1 | 22.5 | 6" leg | Med. Bi-Pin | 10 |
| 31032835U6 | FB32T8/835/6 | 32 | 20000 | 2900 | 2755 | 3500 | 85 | 1 | 22.5 | 6" leg | Med. Bi-Pin | 10 |
| 31032841U6 | FB32T8/841/6 | 32 | 20000 | 2900 | 2755 | 4100 | 85 | 1 | 22.5 | 6" leg | Med. Bi-Pin | 10 |
| 31032850U6 | FB32T8/850/6 | 32 | 20000 | 2900 | 2755 | 5000 | 85 | 1 | 22.5 | 6" leg | Med. Bi-Pin | 10 |
| 31031830U1 | FB31T8/830/1 | 31 | 20000 | 2775 | 2635 | 3000 | 85 | 1 | 22.5 | 1-5/8" leg | Med. Bi-Pin | 10 |
| 31031835U1 | FB31T8/835/1 | 31 | 20000 | 2775 | 2635 | 3500 | 85 | 1 | 22.5 | 1-5/8" leg | Med. Bi-Pin | 10 |
| 31031841U1 | FB31T8/841/1 | 31 | 20000 | 2775 | 2635 | 4100 | 85 | 1 | 22.5 | 1-5/8" leg | Med. Bi-Pin | 10 |



| Item Number | Item Description | Lumens | # of Lamps Supported |
|--|--|--------|----------------------|
| LINEAR FLUORESCENT EMERGENCY BALLASTS, 120 OR 277 VOLTAGE | | | |
| 20B100 | Emergency Ballast 500 Lumens T8 Only | 500 | 1 |
| 20B60 | Emergency Ballast 700 Lumens T8 Only | 700 | 1 or 2 |
| 20B50 | Emergency Ballast 1400 Lumens T8 Only | 1400 | 1 or 2 |
| 20B30 | Emergency Ballast 3000 Lumens T8 or T5 | 3000 | 1 or 2 |
| 20LP550 | Emergency Ballast 800 Lumens T5 Only | 800 | 1 |
| 20LP600 | Emergency Ballast 1300 Lumens T5 Only | 1300 | 1 |



Linear Warranties

Electronic Ballast Warranty

Section 1. This TCP product is warranted for a period of five (5) years from date of manufacture against defects in materials and workmanship. If the ballast fails the warranty, the purchaser must return the ballast, at purchaser's expense, directly to TCP using a pre-approved Return Authorization label. Section 2. Upon verification that the ballast was defective during the warranty period, TCP shall promptly, at TCP's expense, make available a repaired or new replacement ballast. Section 3. TCP will pay actual labor expenses for the replacement of defective ballasts, up to a maximum of \$10.00 per ballast. Section 4. The warranty provided shall automatically expire without notice five (5) years after the date of manufacture. Section 5. To the extent permitted by law, TCP shall not be liable for misuse, lost profits, loss of use or other special, indirect or consequential damages resulting from any breach of TCP's warranty, even if TCP has been advised of the possibility of such damages.

THE WARRANTY PROVIDED ABOVE IS EXCLUSIVE AND NO OTHER WARRANTY IS PROVIDED, WHETHER WRITTEN OR ORAL, EXPRESSED OR IMPLIED. TCP SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY, NONINFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE OF THE BALLAST, THE TCP TECHNOLOGY CONTAINED THEREIN AND ANY OTHER MATERIALS OR SERVICES PROVIDED HEREUNDER; THE REMEDIES OF SECTION 2 SHALL BE THE SOLE AND EXCLUSIVE REMEDIES WITH RESPECT TO THE LIMITED PRODUCT WARRANTY OF SECTION 1.

T8 & T5 Linear Lamp Warranty

This TCP product is warranted for a period of two (2) years from date of manufacture against defects in materials and workmanship. TCP will pay actual labor expenses for the replacement of defective lamps, up to a maximum of \$1.00 per lamp.

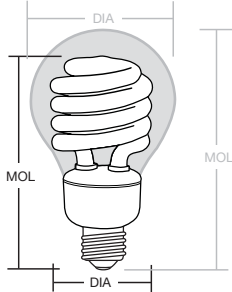
*All data in this catalog is subject to change without notice.



Some of our products contain mercury.
Manage according to Local, State, or Federal Disposal Laws
See: www.lamprecycle.org or call 1-800-771-9335

Product Identification

Bulb Size



DIA: Diameter of bulb at widest point

MOL: Maximum overall length including base

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimensions information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1mm).

Base Types



Medium
E26



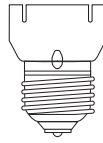
Candelabra
E12



Mogul
E39



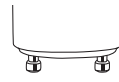
Extended
Mogul



Medium Skirt
E26 / 60 x 39

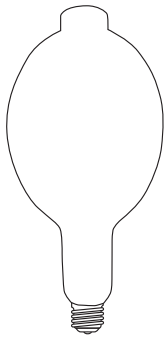


2-Pin
GU Base



GU 24
Base

HID Lamp Shapes



BT56
Blown
Tubular



ED37
Elliptical
Dimpled



ED28
Elliptical
Dimpled



ED23.5
Elliptical
Dimpled



ED18
Elliptical
Dimpled



E25
Elliptical



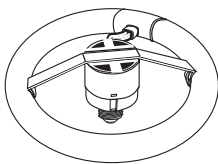
ED17
Elliptical
Dimpled



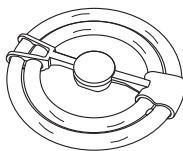
EDX17
Narrow Neck
(Open Fixture)

Compact Fluorescent Shapes

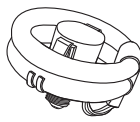
Circline



17030/27 Circline



2D Replacement



33 Watt Circline

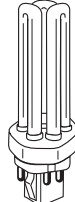
PL Lamps



Twin Tube



Quad Tube

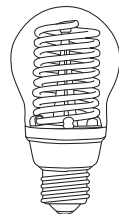


Triple Tube

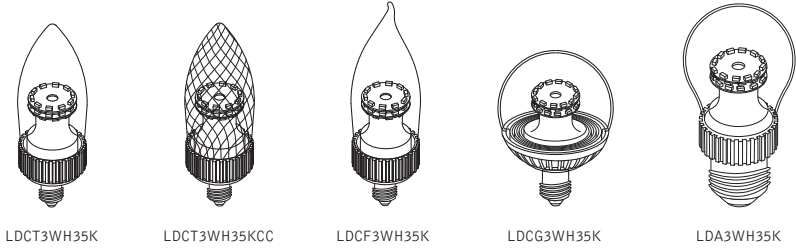
SpringLamp®



Cold Cathode



LED Shapes



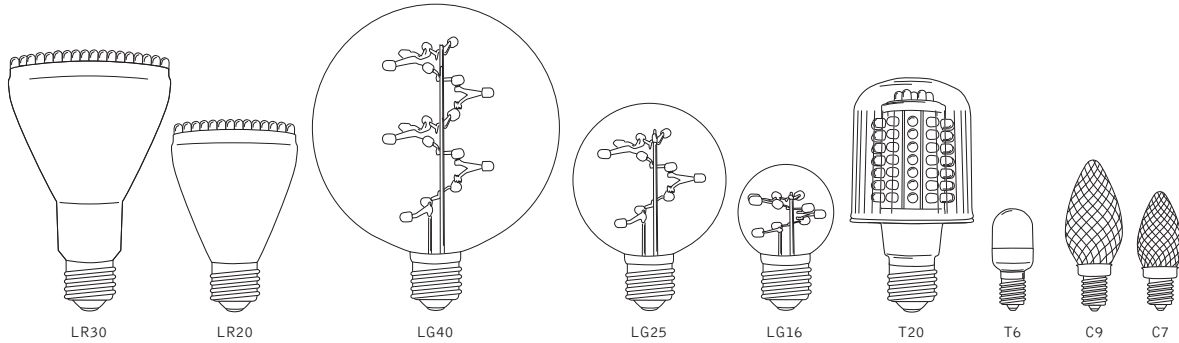
LDCT3WH35K

LDCT3WH35KCC

LDCF3WH35K

LDCG3WH35K

LDA3WH35K



LR30

LR20

LG40

LG25

LG16

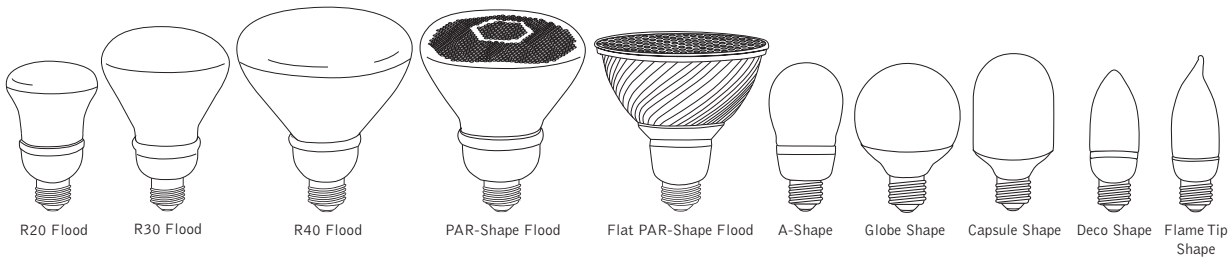
T20

T6

C9

C7

Other Shapes



R20 Flood

R30 Flood

R40 Flood

PAR-Shape Flood

Flat PAR-Shape Flood

A-Shape

Globe Shape

Capsule Shape

Deco Shape

Flame Tip Shape

Light Level Recommendations

IES Recommended Light Levels

Type of Activity

- Public spaces with dark surroundings
- Spaces for short temporary visits (typical hallway)
- Working spaces where visual tasks are only occasionally performed
- Ambient lighting for computer use

Range of Illuminance (in footcandles)

- 2 – 5 fc
- 5 – 10 fc
- 10 – 20 fc
- 20 – 30 fc

Performance of visual tasks:

- High contrast or large size (typical office work) 20 – 50 fc
- Medium contrast or small size 100 – 200 fc
- Low contrast or very small size 100 – 200 fc
- Low contrast and very small size over a prolonged period 200 – 500 fc
- Very prolonged and exacting visual tasks 500 – 1000 fc
- Visual tasks of extremely low contrast and small size 1000 – 2000 fc

*Obtained by combination of general and task lighting

accent lighting

Directional lighting to emphasize a particular object or to draw attention to a part of the field of view. See directional lighting.

adaptation

The process by which the retina of the eye becomes accustomed to more or less light than it was exposed to during an immediately preceding period. It results in a change in the sensitivity of the eye to light.

ANSI American National Standards Institute

The organization that develops voluntary guidelines and produces standards for the electrical and other industries.

arc tube

A completely sealed quartz or ceramic tube where the electrical discharge (arc) occurs and light is generated.

average life

Value for life expectancy of a lamp.

baffle

A single opaque or translucent element to shield a source from direct view at certain angles, or to absorb unwanted light.

ballast

A device used with an electric-discharge lamp to obtain the necessary circuit conditions (voltage, current and wave form) for starting and operating; all fluorescent and HID light sources require a ballast for proper operation. Dimming ballasts are special ballasts which when used together with a dimmer will vary the light output of a lamp.

ballast factor, BF

The measured ability of a particular ballast to produce light from the lamp(s) it powers; ballast factor is derived by dividing the lumen output of a particular lamp/ballast combination by the lumen output of the same lamp(s) on a reference ballast.

base

End of the lamp that inserts into the lamp socket.

beam angle

The angle between the two directions for which the intensity (candlepower) is 50% of the maximum intensity as measured in a plane through the nominal beam centerline (center beam candlepower).

beam spread

(In any plane) the angle between the two directions in the plane in which the candlepower is equal to a stated percent (usually ten percent) of the maximum candlepower in the beam.

brightness

See luminance.

bulb

Outer jacket or envelope of a lamp.

burning position

Position that lamps are designed to operate.

candela, cd

The unit of measure indicating the luminous intensity (candlepower) of a light source in a specific direction; any given light source will have many different intensities, depending upon the direction considered.

candlepower distribution

A curve that represents the variation in luminous intensity (expressed in candelas) in a plane through the light center of a lamp or luminaire; each lamp or lamp/luminaire combination has a unique set of candlepower distributions that indicate how light will be spread.

candlepower distribution curve

A curve, generally polar, representing the variation of luminous intensity of a lamp or luminaire in a plane through the light center.

CCT rating

CCT rating is based on operation at rated watts in the designated operating position. For universal lamps, CCT is rated in the vertical position. All other operating positions will lead to higher values of CCT.

center beam candlepower, CBCP

The intensity of light produced at the center of a reflector lamp, expressed in candelas.

chromaticity

The aspect of color that includes consideration of its dominant wavelength and purity.

coefficient of utilization, CU

The ratio of the luminous flux (lumens) from a luminaire received on the work-plane to the lumens emitted by the luminaire's lamps alone.

color rendering index, CRI

The measure of a light source's ability to render the color of objects "correctly," as compared with a reference source with comparable color temperature; the scale peaks at 100.

color uniformity

Consistency of color from lamp to lamp.

correlated color temperature, CCT

A specification of the color appearance of a lamp relating its color to that of a reference source heated to a particular temperature, measured in degrees Kelvin (K); CCT generally measures the "warmth" or "coolness" of light source appearance.

current, I

A measure of the flow of electricity, expressed in amperes (A).

current crest factor

Ratio of peak to rms value of lamp current: mh values range from 1.4 – 1.8. Cannot go above 1.8 Or it reduces lamp life.

cut-off angle

(Of a luminaire) the angle from the vertical at which a reflector, louver or other shielding device cuts off direct visibility of a light source. It is the complementary angle of the shielding angle.

diffuse lighting

Light that is not predominantly incident from any particular direction.

diffuser

A device to redirect or scatter the light from a source by the process of diffuse transmission.

direct glare

Glare resulting from high luminance or insufficiently shielded light sources in the field of view, or from reflecting areas of high luminance. It is usually associated with bright areas such as luminaires, ceilings and windows that are outside the visual task or region being viewed.

direct lighting

Lighting by luminaires distributing 90 to 100 percent of the emitted light in the general direction of the surface to be illuminated. The term usually refers to light emitted in a downward direction. (See accent lighting.)

directional lighting

Illumination on the work-plane or on an object predominantly from a single direction.

disability glare

Glare resulting in reduced visual performance and visibility. It is often accompanied by discomfort.

discharge lamp

Light-producing device that depends on electric arc, rather than filament, to create illumination.

discomfort glare

Glare producing discomfort. It does not necessarily interfere with visual performance or visibility.

double-ended

Lamps that have two bases opposite one another for series electrical connection, mounting connection and heat dissipation.

economic life

Number of hrs. A group of lamps will burn before it's ergonomically advisable to group re-lamp (typically 60% - 75% of rated life).

efficacy

Efficiency of a light source expressed in lumens per watt (LPW or lm/W).

energy

A measure of work done by an electrical system over a given period of time, often expressed in kilowatt-hours (kWh).

ENERGY STAR®

U.S. Department of Energy (DOE) and Environmental Protection Agency (EPA) designation for products meeting certain energy efficiency and performance standards.

enhancing reflections

Reflections which enhance appearance described in such terms as sparkling, glittering, etc.

ESCO

Energy Saving Service Company

fenestration

Any opening or arrangement of openings or windows (normally filled with media for light control) for the admission of daylight or for the transmission of electric lighting from one room to another room.

filament

A tungsten wire purposely positioned inside a lamp bulb that when heated, electrically generates radiation in the visible, infrared and ultraviolet ranges.

fixture

See luminaire.

floodlight

A reflector lamp with a relatively wide beam pattern.

fluorescent lamp

A low pressure mercury electric discharge lamp, tubular in shape in which a fluorescent coating (phosphor) transforms ultraviolet energy into visible light.

footcandle, fc

A unit of illuminance equal to 1 lumen per square foot.

formed body arc tube

Arc tube formed by quartz sculpting process: has 1/3 less quartz mass than standard arc tubes: 3rd starter electrode eliminated. Ballast requires external ignitor with 3-4 KV to start lamp.

frequency

The number of times per second that an alternating current system reverses from positive to negative and back to positive, expressed in cycles per second or hertz, Hz.

general lighting

Lighting designed to provide a substantially uniform illuminance throughout an area, exclusive of any provision for special local requirements.

glare

Excessive brightness that may be caused by either direct or indirect viewing of a light source; any brightness or brightness relationship that annoys, distracts or reduces visibility.

harmonic

An electrical frequency that is an integer multiple of the fundamental frequency; for example, if 60 Hz is the fundamental frequency, then 120 Hz is the second harmonic and 180 Hz is the third harmonic; some electronic devices, such as ballasts or power supplies, can cause harmonic distortion, directly affecting power quality.

Hertz, Hz

A unit of frequency equal to one cycle per second; see frequency.

high intensity discharge (HID) lamps

A general group of lamps consisting of mercury, metal halide and high pressure sodium lamps.

illuminance

Light arriving at a surface, expressed in lumens per unit area; 1 lumen per square foot equals 1 footcandle, while 1 lumen per square meter equals 1 lux.

incandescent filament lamp

A lamp in which light is produced by a filament heated to incandescence by an electric current.

indirect lighting

Lighting by luminaires distributing 90 to 100 percent of the emitted light upward.

initial lumens

The light output of an HID lamp at rated power on a reference ballast after 100 hours of operation.

lamp

Manufactured light source; the 3 broad categories of electric lamps are incandescent, fluorescent, and high intensity discharge (HID). Also, A generic term for a man-made source of light.

lamp life

An average rating, in hours, indicating when 50% of a large group of lamps have failed, when operated at nominal lamp voltage and current; manufacturers use 3 hours per start for fluorescent lamps and 10 hours per start for HID lamps when performing lamp life testing procedures; every lamp type has a unique mortality curve that depicts its average rated life.

lamp lumen depreciation factor, LLD

The multiplier to be used in illumination calculations to relate the initial rated output of light sources to the anticipated minimum rated output based on the relamping program to be used.

lamp voltage

Voltage which lamps operate when they are fully warmed up.

lens

A glass or plastic element used in luminaires to change the direction and control the distribution of light rays.

level of illumination

See illuminance.

light

Radiant energy that is capable of producing a visual sensation.

light center length (LCL)

The distance from the center of the visible arc discharge to the bottom of the contact of the base.

light emitting diode (LED)

Semiconductor diodes, electronic devices that permit current flow in only one direction. The diode is formed by bringing two slightly different materials together, forming a junction. When a forward voltage is applied, current flow begins and energy is radiated in the form of light.

light loss factor, LLF

A factor used in calculating illuminance after a given period of time and under given conditions. It takes into account temperature and voltage variations, dirt accumulation on luminaire and room surfaces, lamp depreciation, maintenance procedures and atmosphere conditions. Formerly called maintenance factor.

light on centers, LOC

Distance between LED lights, TCP's Holiday lighting products.

light source

See lamp.

lighting design lumens (LDL)

Number of lumens at 2,000 hrs. Of operation.

louver

A series of baffles used to shield a source from view at certain angles or to absorb unwanted light. The baffles are usually arranged in a geometric pattern.

lumen, lm

A unit of luminous flux; the overall light output of a luminous source is measured in lumens. Amount of light lamp emits once it's started.

lumen depreciation

The decrease in lumen output of a light source over time; every lamp type has a unique lumen depreciation curve (sometimes called lumen maintenance curve) depicting the pattern of decreasing light output.

lumen maintenance

Lumen output provided by lamp at given point in or percentage of its life.

lumens per watt, LPW

Lumen (light) output divided by lamp watts consumed (i.e. Amount of electricity used); also known as efficacy.

luminaire

A light fixture; the complete lighting unit, including lamp, reflector, ballast, socket, wiring, diffuser, and housing.

luminaire efficiency

The ratio of luminous flux (lumens) emitted by a luminaire to that emitted by the lamp or lamps used therein.

luminance, L

Light reflected in a particular direction; the photometric quantity most closely associated with brightness perception, measured in units of luminous intensity (candelas) per unit area (square feet or square meters).

luminance contrast

The relationship between the luminances of an object and its immediate background.

luminance ratio

The ratio between the luminances of any two areas in the visual field.

luminous flux

The time rate of flow of light.

lux, lx

A unit of illuminance equal to 1 lumen per square meter.

maximum overall length, MOL

The maximum allowable distance from the top of the glass bulb to the end of the contact of the base.

matte surface

A non-glossy dull surface as opposed to a shiny (specular) surface. Light reflected from a matte surface is diffuse.

mean lumens

Lumen output of a light source after the source has been used. Mean lumen values for fluorescent and HID lamps are typically measured at 40% of rated life.

milli-candela, MCD

The measurement of light output of an LED in thousandths of a candela.

nanometer, nm

A unit of length equal to 10⁻⁹ meters; commonly used as a unit of wavelength.

open rated lamp, mogul base

Designed with an extended contact pin on the bottom of the base. Lamps should be used with an extended contact pin on the bottom of the base. Lamps should be used with an open fixture mogul socket (EX39) which prevents electrical contact if a non open rated lamp is used.

open rated lamp, medium base

Designed for open fixtures; has narrower neck than standard medium base lamps to fit into an exclusionary medium socket for open fixture use.

operating position

Metal halide lamps are specified and designed to be operated in certain positions such as a vertical or base-up.

power

The rate at which energy is taken from an electrical system or dissipated by a load, expressed in watts (W); power that is generated by a utility is typically expressed in volt-amperes (V-A).

power factor

A measure of the effectiveness with which an electrical device converts volt-amperes to watts; devices with power factors >0.90 are "high power factor" devices.

pulse start lamp

Specially designed metal halide lamp that requires high voltage pulse for starting. Has improved lumen maintenance.

quality of lighting

Pertains to the distribution of luminance in a visual environment. The term is used in a positive sense and implies that all luminances contribute favorably to visual performance, visual comfort, ease of seeing, safety and esthetics for the specific visual tasks involved.

quantity of light

The product of the luminous flux by the time it is maintained. It is the time integral of luminous flux.

rated life

The number of operating hours at which 50% of most metal halide lamps or 70% of some pulse start lamps initially started will still be operating.

reference ballast

A ballast specially constructed to have certain prescribed characteristics for use in testing electric-discharge lamps and other ballasts.

reflectance, rho

The percentage of light reflected back from a surface, the difference having been absorbed or transmitted by the surface.

reflected glare

Glare resulting from specular reflections of high luminance in polished or glossy surfaces in the field of view.

reflection

The process by which flux leaves a surface or medium from the incident side.

reflector

A device used to redirect the light by the process of reflection.

refraction

The process by which the direction of a ray of light changes as it passes obliquely from one medium to another.

refractor

A device used to redirect the luminous flux from a source, primarily by the process of refraction.

resistance, R

A measure of resistance to flow of current, expressed in ohms.

restrike time

The time to re-ignite the arc of an HID lamp.

shielding

A general term to include all devices used to block, diffuse or redirect light rays, including baffles, louvers, shades, diffusers and lenses.

shielding angle

The complementary angle of the cut-off angle of a luminaire.

shroud

Glass cylinder surrounding arc tube to protect against hot arc tube particles breaking the glass bulb if an arc tube rupture occurs; reduces risk of using mh lamps in open fixtures.

Special (SPC)

Items not stocked in TCP's warehouse. These items have longer lead times than stocked (STK) items. Contact our Customer Service department at 800-324-1496 for additional details.

spectral power distribution, SPD

A curve illustrating the distribution of power produced by the lamp, at each wavelength across the spectrum.

specular surface

A shiny, highly polished surface which reflects light at an angle equal to that of the incident light.

spotlight

A reflector lamp with a narrow beam pattern used to illuminate a specifically defined area.

Stocked (STK)

Item is in stock and applicable to standard shipping.

supplementary lighting

Lighting used to provide an additional quantity and quality of illumination that cannot be readily obtained by a general lighting system and that supplements the general lighting level usually for specific task requirements.

Special Order (SPO)

Items marked SPO require a lead time of 4-6 weeks, and utilize a premium delivery option. Contact our Customer Service department at 800-324-1496 for additional details.

transmission

The process by which incident flux leaves a surface or medium on a side other than the incident side, the characteristics of many materials such as glass, plastics and textiles.

transmittance

The ratio of the flux transmitted by a medium to the incident flux.

UV Guard™

Refers to TCP's metal halide lamps with a protective quartz sleeve around the arc tube. Suitable for use in open luminaires and reduces UV by up to 90%.

veiling reflections

Reflections which partially or totally obscure the details to be seen by reducing the contrast.

visual comfort probability, VCP

A discomfort glare calculation that predicts the percent of observers positioned in the least favorable part of the room who would be expected to judge a lighting condition to be comfortable. VCP rates the luminaire in its environment, taking into account such factors as illuminance level, room dimensions and reflectances, luminaire type, size and light distribution, number and location of luminaires, and observer location and line of sight. The higher the VCP the more comfortable the lighting environment.

visual field

The location of objects or points in a space where the head and eyes are kept fixed.

visual surround

all portions of the visual field except the visual task.

visual task

Those details and objects which must be seen for the performance of a given activity, including the immediate background of the details or objects.

voltage, V

A measure of electrical potential, expressed in volts (V).

warm-up time

The amount of time from ignition of the lamp to 90% of full light output of an HID lamp.

watt, W

A unit of electrical power equal to 1 joule per second.

work plane

The plane at which work usually is done, and on which the illuminance is specified and measured. Unless otherwise indicated, this is assumed to be a horizontal plane 0.76 meters (30 inches) above the floor.

Special Order (SPO)

Items marked SPO require a lead time of 4-6 weeks, and utilize a premium delivery option.

| Item # | Description |
|------------------------|--------------------------------|
| TORPEDO LAMPS | |
| 10702 | 2w Torpedo |
| 10702C | 2w Torpedo Candelabra |
| 10702C35K | 2w Torpedo Candelabra 35K |
| 10702C51K | 2w Torpedo Candelabra Base 51K |
| 10702LV | 2w Torpedo LV Color |
| 10703CLV | 3w Torpedo Candelabra LV Color |
| 1070435K | 4w Torpedo Lamp 35K |
| 1070441K | 4w Torpedo Lamp 41K |
| 1070451K | 4w Torpedo Lamp 51K |
| 10704C35K | 4w Torpedo Candelabra 35K |
| 10704C41K | 4w Torpedo Candelabra 41K |
| 10704C51K | 4w Torpedo Candelabra 51K |
| 1070931K | 9w Torpedo Lamp 31K |
| 1070935K | 9w Torpedo Lamp 35K |
| 1070941K | 9w Torpedo Lamp 41K |
| 1070951K | 9w Torpedo Lamp 51K |
| 10709C31K | 9w Torpedo Candelabra 31K |
| 10709C65K | 9w Torpedo Candelabra 65K |
| 1071431K | 14w Torpedo Lamp 31K |
| 1071435K | 14w Torpedo Lamp 35K |
| 1071441K | 14w Torpedo Lamp 41K |
| 1071451K | 14w Torpedo Lamp 51K |
| 1071465K | 14w Torpedo Lamp 65K |
| 10714C31K | 14w Torpedo Candelabra 31K |
| 10714C65K | 14w Torpedo Candelabra 65K |
| 10714PERM | 14w Torpedo Lamp Tip Base |
| A-LAMPS | |
| 1130435K | 4w A-Lamp 35K |
| 1130441K | 4w A-Lamp 41K |
| 1130451K | 4w A-Lamp 51K |
| 1130465K | 4w A-Lamp 65K |
| 1130935K | 9w A-Lamp 35K |
| 1130941K | 9w A-Lamp 41K |
| 1130951K | 9w A-Lamp 51K |
| 1130965K | 9w A-Lamp 65K |
| 11309C | 9w A-Lamp Candelabra |
| 1131631K | 16w A-Lamp 31K |
| 1131635K | 16w A-Lamp 35K |
| 1131641K | 16w A-Lamp 41K |
| 1131651K | 16w A-Lamp 51K |
| 1131665K | 16w A-Lamp 65K |
| 11316PERM | 16w A-Lamp Tip Base |
| 1131931K | 19w A-Lamp 31K |
| 1131935K | 19w A-Lamp 35K |
| 1131941K | 19w A-Lamp 41K |
| 1131965K | 19w A-Lamp 65K |
| 1132335K | 23w A-Lamp 35K |
| 1132341K | 23w A-Lamp 41K |
| 1132350K | 23w A-Lamp 50K |
| 2131465K | 14w A-Lamp 65K |
| 21314SB | 14w A-Lamp Silverbowl |
| 21314Y | 14w A-Lamp Bug Light |
| HPF SPRINGLAMPS | |
| 1820931K | 9w SpringLamp HPF 31K |
| 1820935K | 9w SpringLamp HPF 35K |
| 1820941K | 9w SpringLamp HPF 41K |
| 1820951K | 9w SpringLamp HPF 51K |
| 1820965K | 9w SpringLamp HPF 65K |
| 1821135K | 11w SpringLamp HPF 35K |
| 1821141K | 11w SpringLamp HPF 41K |
| 1821431K | 14w Mini HPF SpringLamp 31K |

| Item # | Description |
|--------------------|-----------------------------------|
| 1821435K | 14w HPF SpringLamp 35K |
| 1821441K | 14w Mini HPF SpringLamp 41K |
| 1821451K | 14w Mini HPF SpringLamp 51K |
| 1821465K | 14w Mini HPF SpringLamp 65K |
| 18214SP | 14w Mini HPF SpringLamp Soft Pink |
| 1822031K | 20w HPF SpringLamp 31K |
| 1822035K | 20w HPF SpringLamp 35K |
| 1822051K | 20w HPF SpringLamp 51K |
| 1822065K | 20w HPF SpringLamp 65K |
| 1822331K | 23w HPF SpringLamp 31K |
| 1822335K | 23w HPF SpringLamp 35K |
| 1822341K | 23w HPF SpringLamp 41K |
| 1822351K | 23w HPF SpringLamp 51K |
| 1822365K | 23w HPF SpringLamp 65K |
| 1822731K | 27w HPF SpringLamp 31K |
| 1822735K | 27w HPF SpringLamp 35K |
| 1822751K | 27w HPF SpringLamp 51K |
| 1822765K | 27w HPF SpringLamp 65K |
| 18227SP | 27w Mini HPF SpringLamp Soft Pink |
| 3-WAY LAMPS | |
| 1903231K | 32w 3-Way SpringLamp 31K |
| 1903235K | 32w 3-Way SpringLamp 35K |
| 1903241K | 32w 3-Way SpringLamp 41K |
| 1903265K | 32w 3-Way SpringLamp 65K |
| GLOBE LAMPS | |
| 1G100241K | 2w G10 Globe 41K |
| 1G100251K | 2w G10 Globe 51K |
| 1G1002C41K | 2w G10 Globe Candelabra 41K |
| 1G1002C51K | 2w G10 Globe 51K |
| 1G2002 | 2w G20 Deco Lamp |
| 1G200241K | 2w G20 Deco Lamp 41K |
| 1G200251K | 2w G20 Deco Lamp 51K |
| 1G200265K | 2w G20 Globe 65K |
| 1G2002C | 2w G20 Deco Lamp Candelabra |
| 1G2002C31K | 2w G20 Globe Candelabra 31K |
| 1G2002C35K | 2w G20 Deco Lamp Candelabra 35K |
| 1G2002C41K | 2w G20 Globe Candelabra 41K |
| 1G2002C51K | 2w G20 Deco Candelabra 51K |
| 1G200431K | 4w G20 Globe Lamp 31K |
| 1G200435K | 4w G20 Globe Lamp 35K |
| 1G200441K | 4w G20 Globe Lamp 41K |
| 1G200451K | 4w G20 Globe Lamp 51K |
| 1G2004C31K | 4w G20 Globe 31K |
| 1G2004C35K | 4w G20 Globe Candelabra 35K |
| 1G2004C41K | 4w G20 Globe Candelabra 41K |
| 1G2004C51K | 4w G20 Globe Candelabra 51K |
| 1G2502 | 2w G25 Globe |
| 1G250435K | 4w G25 Globe 35K |
| 1G250441K | 4w G25 Globe 41K |
| 1G250451K | 4w G25 Globe 51K |
| 1G250465K | 4w G25 Globe 65K |
| 1G2504C | 4w G25 Globe Candelabra |
| 1G2504C31K | 4w G25 Globe Candelabra 31K |
| 1G2504C35K | 4w G25 Globe Candelabra 35K |
| 1G2504C41K | 4w G25 Globe Candelabra 41K |
| 1G2504C51K | 4w G25 Globe Candelabra 51K |
| 1G250931K | 9w G25 Globe 31K |
| 1G250935K | 9w G25 Globe 35K |
| 1G250941K | 9w G25 Globe 41K |
| 1G2509C31K | 9w G25 Globe Candelabra 31K |
| 1G2509C35K | 9w G25 Globe Candelabra 35K |
| 1G2509C41K | 9w G25 Globe Candelabra 41K |

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SPO Listing

2010 LAMPS & BALLASTS
Fall/Winter Catalog

Contact our Customer Service department at 800-324-1496 for additional details about SPO items.

| Item # | Description |
|-------------|-------------------------------|
| 1G2509C51K | 9w G25 Globe Candelabra 51K |
| 1G2509SB | 9w G25 Globe Silverbowl |
| 1G2509SB35K | 9w G25 Silverbowl 35K |
| 1G300931K | 9w G30 Globe 31K |
| 1G300941K | 9w G30 Globe 41K |
| 1G300951K | 9w G30 Globe 51K |
| 1G301431K | 14w G30 Globe 31K |
| 1G301435K | 14w G30 Globe 35K |
| 1G301441K | 14w G30 Globe 41K |
| 1G301465K | 14w G30 Globe 65K |
| 1G3014SB | 14w G30 SpringLamp Silverbowl |
| 1G3014SB35K | 14w G30 Silverbowl 35K |
| 1G3014SB41K | 14w G30 Silverbowl 41K |
| 1G3014SB51K | 14w G30 Silverbowl 51K |
| 1G301931K | 19w G30 Globe 31K |
| 1G301935K | 19w G30 Globe 35K |
| 1G301941K | 19w G30 Globe 41K |
| 1G301965K | 19w G30 SpringLamp 65K |
| 1G302335K | 23w G30 Globe 35K |
| 1G302341K | 23w G30 Globe 41K |
| 1G302350K | 23w G30 Globe 50K |
| 1G401431K | 14w G40 Globe 31K |
| 1G401435K | 14w G40 Globe 35K |
| 1G401441K | 14w G40 Globe 41K |
| 1G401451K | 14w G40 Globe 51K |
| 1G401465K | 14w G40 Globe 65K |
| 1G4014PERM | 14w G40 Tip Base |
| 1G401935K | 19w G40 Globe 35K |
| 1G401941K | 19w G40 Globe 41K |
| 1G401951K | 19w G40 Globe 51K |
| 1G401965K | 19w G40 Globe 65K |
| 1G4023 | 23w G40 Globe |
| 1G402335K | 23w G40 Globe 35K |
| 1G402341K | 23w G40 Globe 41K |
| 1G402350K | 23w G40 Globe 50K |
| 2G251431K | 14w G25 Globe 31K |
| 2G251465K | 14w G25 Globe 65K |
| 2G2514C | 14w G25 Globe Candelabra |
| 2G2514C31K | 14w G25 Globe Candelabra 31K |
| 2G2514SB | 14w G25 Globe Silver Bowl |

PAR FLOOD LAMPS

| | |
|-----------|--------------------------|
| 1P3016165 | 16w Par30 1.65" |
| 1P301631K | 16w Par30 31K |
| 1P301635K | 16w Par30 35K |
| 1P301665K | 16w Par30 65K |
| 1P381631K | 16w Par38 31K |
| 1P381635K | 16w Par38 35K |
| 1P381641K | 16w Par38 41K |
| 1P381651K | 16w Par38 51K |
| 1P381665K | 16w Par38 65K |
| 1P382331K | 23w Par38 Floodlight 31K |
| 1P382365K | 23w Par38 Floodlight 65K |
| 2P381931K | 19w Par38 31K |
| 2P381951K | 19w Par38 51K |
| 2P381965K | 19w Par38 65K |

FLAT PAR LAMPS

| | |
|-----------|--------------------|
| PF201435K | 14w Flat Par20 35K |
| PF201450K | 14w Flat Par20 50K |
| PF201465K | 14w Flat Par20 65K |
| PF241431K | 14w Flat Par24 31K |
| PF301650K | 16w Flat Par30 50K |
| PF301665K | 16w Flat Par30 65K |

| Item # | Description |
|-----------|-----------------------|
| PF382335K | 23w Flat Par38 35K |
| PF3823BL | 23w Flat Par38 Blue |
| PF3823GR | 23w Flat Par38 Green |
| PF3823RD | 23w Flat Par38 Red |
| PF3823Y | 23w Flat Par38 Yellow |

R20, R30, R40 FLOOD LAMPS

| | |
|------------|----------------------------|
| 1R200431K | 4w R20 31K |
| 1R200435K | 4w R20 35K |
| 1R200441K | 4w R20 41K |
| 1R200451K | 4w R20 51K |
| 1R200465K | 4w R20 65K |
| 1R200931K | 9w R20 31K |
| 1R200935K | 9w R20 35K |
| 1R2009C35K | 9w R20 Candelabra Base 35K |
| 1R201431K | 14w R20 Flood 31K |
| 1R201465K | 14w R20 65K |
| 1R2014LV | 14w R20 Flood LV Color |
| 1R401631K | 16w R40 Flood 31K |
| 1R401635K | 16w R40 Flood 35K |
| 1R401665K | 16w R40 65K |
| 1R402365K | 23w R40 65K |
| 2R301465K | 14w R30 65K |
| 2R3014P | 14w R30 Pink |
| 2R3014SP | 14w R30 Soft Pink |
| 2R301665K | 16w R30 65K |
| 2R3016BL | 16w R30 Blue |
| 2R3016P | 16w R30 Pink |
| 2R3016SP | 16w R30 Soft Pink |

CAPSULE LAMPS

| | |
|-----------|----------------------------|
| 1T2004 | 4w T20 Capsule |
| 1T200451K | 4w T20 Capsule 51K |
| 1T2009 | 9w T20 Capsule |
| 1T200941K | 9w T20 Capsule 41K |
| 1T201435K | 14w T20 Capsule 35K |
| 1T201441K | 14w T20 Capsule 41K |
| 1T2409 | 9w T24 Capsule |
| 1T2414 | 14w T24 Capsule |
| 1T241431K | 14w T24 Capsule 31K Nonstk |
| 1T241435K | 14w T24 Capsule 35K |
| 1T241441K | 14w T24 Capsule 41K |
| 1T241451K | 14w T24 Capsule 51K |
| 1T241465K | 14w T24 Capsule 65K |
| 1T241931K | 19w T24 Capsule 31K |
| 1T241935K | 19w T24 Capsule 35K |
| 1T241941K | 19w T24 Capsule 41K |
| 1T241965K | 19w T24 Capsule 65K |
| 1T242341K | 23w T24 Capsule 41K |
| 1T242350K | 23w T24 Capsule 50K |

SPRINGLAMPS HIGH WATTAGE / 277V

| | |
|--------------|------------------------------------|
| 2892727730K | 27w Med Base 277 Volt 30K |
| 2892727735K | 27w Med Base 277 Volt 35K |
| 2892727751K | 27w Med Base 277 Volt 51K |
| 2892727765K | 27w Med Base 277 Volt 65K |
| 28927H | 27w SpringLamp Mogul Base |
| 28927H277 | 27w SpringLamp 277V Mogul Base |
| 28927H27741K | 27w Mogul Base 277V 41K Spring |
| 28927H27751K | 27w SpringLamp 277V Mogul Base 51K |
| 28927H35K | 27w SpringLamp Mogul Base 35K |
| 28927H41K | 27w SpringLamp Mogul Base 41K |
| 28942277225 | 42w Med Base 277V 225 |

SpringLamps High Wattage Continues on next page...

Special Order (SPO)

Items marked SPO require a lead time of 4-6 weeks, and utilize a premium delivery option.

| Item # | Description |
|---|------------------------------------|
| SPRINGLAMPS HIGH WATTAGE / MOGUL BASE / 277V (CONT.) | |
| 2894227735K | 42w Med Base 277V 35K |
| 2894227765K | 42w SpringLamp 277V 65K |
| 28942FS | 42w Full Spectrum SpringLamp |
| 28942H27731K | 42w Mogul Bse SpringLamp 277V 31K |
| 28942H27735K | 42w Mogul Bse SpringLamp 277V 35K |
| 28942H27765K | 42w Mogul Base SpringLamp 277V 65K |
| 28942H35K | 42w SpringLamp Mogul Base 35K |
| 28942H51K | 42w SpringLamp Mogul Base 51K |
| 28942H65K | 42w SpringLamp Mogul Base 65K |
| 2896827741K | 68w SpringLamp 41K 277V |
| 2896831K | 68w SpringLamp 31K |
| 2896835K | 68w SpringLamp 35K |
| 2896865K | 68w SpringLamp 65K |
| 28968H27735K | 68w SpringLamp H277 Mogul Base 35K |
| 28968H27765K | 68w SpringLamp Mogul 277V 65K |
| 28968H35K | 68w SpringLamp Mogul Base 120v 35K |
| 28968H65K | 68w SpringLamp Mogul Base 120v 65K |
| PL LAMPS | |
| 3200535K | 5w Twin Tube PL Lamp 2-Pin 35K |
| 3200550K | 5w Twin Tube PL Lamp 2-Pin 50K |
| 3200735K | 7w Twin Tube PL Lamp 2-Pin 35K |
| 3200750K | 7w Twin Tube PL Lamp 2-Pin 50K |
| 3200930K | 9w Twin Tube PL Lamp 30K |
| 3200950K | 9w Twin Tube PL Lamp 50K |
| 3200965K | 9w Twin Tube PL Lamp 65K |
| 32009Q30K | 9w Quad PL Lamp 2-Pin 9DTT 30K |
| 32009Q35K | 9w Quad PL Lamp 2-Pin 9DTT 35K |
| 32009Q41K | 9w Quad PL Lamp 2-Pin 9DTT 41K |
| 32009Q50K | 9w Quad PL Lamp 2-Pin 9DTT 50K |
| 3201365K | 13w Twin Tube PL Lamp 2-Pin 65K |
| 32013ISQ30K | 13w Instant Start Quad Lamp 30K |
| 32013ISQ50K | 13w Instant Start Quad Lamp 50K |
| 32013IST35K | 13w Twin Tube Instnt Start 35K |
| 32013Q50K | 13wquad PL Lamp 2-Pin 13DTT 50K |
| 32018Q30K | 18w Quad PL Lamp 30K |
| 32018Q50K | 18w Quad PL Lamp 50K |
| 32018Q65K | 18w Quad PL Lamp 65K |
| 32022Q35K | 22w 2-Pin Quad PL Gx32d-52 35K |
| 32022Q41K | 22w 2-Pin Quad PL Gx32d-52 41K |
| 32022Q51K | 22w 2-Pin Quad PL Gx32d2 51K |
| 32026Q30K | 26w Quad PL Lamp 30K |
| 32026Q50K | 26w Quad PL Lamp 50K |
| 32028Q35K | 28w 2-Pin Quad PL W/Gx32d-3 35K |
| 32028Q41K | 28w 2-Pin Quad PL Gx32d-3 41K |
| 324132GX730K | 13w 4-Pin PL 2gx7 Base 30K |
| 324132GX741K | 13w 4-Pin PL 2gx7 Base 41K |
| 324132GX750K | 13w 4-Pin PL 2gx7 Base 50K |
| 32413Q50K | 13w Quad Lamp PL 4-Pin 50K |
| 32418Q50K | 18w Quad Lamp PL 4-Pin 50K |
| 32418T30K | 18w Triple Lamp PL 4-Pin 30K |
| 32418T41K | 18w Triple Lamp PL 4-Pin 41K |
| 32418T50K | 18w Triple Lamp PL 4-Pin 50K |
| 32426Q65K | 26w Quad Lamp PL 4-Pin 65K |
| 32426T50K | 26w Triple Lamp PL 4-Pin 50K |
| 32426T65K | 26w Triple Lamp PL 4-Pin 65K |
| 32432T65K | 32w Triple Lamp PL 4-Pin 65K |
| 32442T65K | 42w 4-Pin Triple Tube PL 65K |
| GU-24 LAMPS | |
| 33109A19 | 9w A-Lamp GU Base |
| 33109Q41K | 9w Quad PL Lamp GU Base 41K |
| 33109Q50K | 9w Quad PL Lamp GU Base 50K |

| Item # | Description |
|---------------------------|--|
| 33109SP30K | 9w SpringLamp GU Base 30K |
| 33109SP35K | 9w SpringLamp GU Base 35K |
| 33109SP41K | 9w SpringLamp GU Base 41K |
| 33109SP50K | 9w SpringLamp GU Base 50K |
| 33113Q31K | 13w Quad PL Lamp GU Base 31K |
| 33113Q35K | 13w Quad PL Lamp GU Base 35K |
| 33113Q41K | 13w Quad PL Lamp GU Base 41K |
| 33113Q50K | 13w Quad PL Lamp GU Base 50K |
| 33113Q51K | 13w Quad PL Lamp GU Base 51K |
| 33113SP35K | 13w SpringLamp GU Base 35K |
| 33113SP50K | 13w SpringLamp GU Base 50K |
| 33114A1935K | 14w A-Lamp GU Base 35K |
| 33114PF2031K | 14w Flat Par20 GU Base 31K |
| 33116PF3031K | 16w Flat Par30 GU Base 31K |
| 33116R30 | 16w R30 GU Base Floodlight |
| 33118Q41K | 18w Quad PL Lamp GU Base 41K |
| 33118Q50K | 18w Quad PL Lamp GU Base 50K |
| 33118SP50K | 18w SpringLamp GU Base 50K |
| 33123P38 | 23w Par38 Floodlight GU Base |
| 33123R40 | 23w R40 Floodlight GU Base |
| 33123SP30K | 23w SpringLamp GU Base 30K |
| 33123SP35K | 23w SpringLamp GU Base 35K |
| 33123SP41K | 23w SpringLamp GU Base 41K |
| 33123SP50K | 23w SpringLamp GU Base 50K |
| 33126Q35K | 26w PL Lamp GU Base 35K |
| 33126Q41K | 26w PL Lamp GU Base 41K |
| 33127SP35K | 27w SpringLamp GU Base 35K |
| 33127SP41K | 27w SpringLamp GU Base 41K |
| 33127SP50K | 27w SpringLamp GU Base 50K |
| 33132SP35K | 32w SpringLamp GU Base 35K |
| 33132SP65K | 32w SpringLamp GU Base 65K |
| 33142SP35K | 42w SpringLamp GU Base 35K |
| 33142SP41K | 42w SpringLamp GU Base 41K |
| 33142SP65K | 42w SpringLamp GU Base 65K |
| COLD CATHODE LAMPS | |
| 8A03BL | 3w Cold Cathode A-Lamp Blue |
| 8A03CL41K | 3w Cold Cathode A-Lamp Clear 41K |
| 8A03F41K | 3w Cold Cathode A-Lamp Frost 41K |
| 8A03FINT | 3w Cold Cathode A-Lamp Intermediate Base Frost |
| 8A03GR | 3w Cold Cathode A-Lamp Green |
| 8A03LV | 3w Cold Cathode A-Lamp LV |
| 8A03RD | 3w Cold Cathode A-Lamp Red |
| 8A03WH | 3w Cold Cathode A-Lamp White |
| 8A03Y | 3w Cold Cathode A-Lamp Yellow |
| 8A05BL | 5w Cold Cathode A-Lamp Blue |
| 8A05CL41K | 5w Cold Cathode A-Lamp 41K |
| 8A05CLBULK100 | 5w Cold Cathode A-Lamp Clear Bulk 100 |
| 8A05GR | 5w Cold Cathode A-Lamp Green |
| 8A05RD | 5w Cold Cathode A-Lamp Red |
| 8A05WH | 5w Cold Cathode A-Lamp White |
| 8A05WH41K | 5w Cold Cathode A-Lamp White 41K |
| 8A05Y | 5w Cold Cathode A-Lamp Yellow |
| 8A08BL | 8w Cold Cathode A-Lamp Blue |
| 8A08CL41K | 8w Cold Cathode A-Lamp Clear 41K |
| 8A08F41K | 8w Cold Cathode A-Lamp Frost 41K |
| 8A08GR | 8w Cold Cathode A-Lamp Green |
| 8A08RD | 8w Cold Cathode A-Lamp Red |
| 8A08SB | 8w Cold Cathode A-Lamp Clear Silver Bowl |
| 8A08WH41K | 8w Cold Cathode A-Lamp White 41K |
| 8A08Y | 8w Cold Cathode A-Lamp Yellow |
| 8AC03CL | 3w Cold Cathode A-Lamp Candelabra Cl |
| 8AC03F | 3w Cold Cathode A-Lamp Frost |
| 8AC03LV | 3w Cold Cathode A-Lamp Candelabra LV |



Contact our Customer Service department at 800-324-1496 for additional details about SPO items.

| Item # | Description |
|-------------|--|
| 8AC03WH | 3w Cold Cathode A-Lamp White Candelabra |
| 8AC05F | 5w Cold Cathode A-Lamp Candelabra Frost |
| 8AC05LV | 5w Cold Cathode A-Lamp Candelabra LV |
| 8AC08CL | 8w Cold Cathode A-Lamp Candelabra Clear |
| 8AC08F | 8w Cold Cathode A-Lamp Candelabra Frost |
| 8G20C03CL | 3w Cold Cathode G20 Candelabra |
| 8G20C03WH | 3w Cold Cathode G20 White |
| 8G2503CL | 3w Cold Cathode G25 Clear |
| 8G2503WH | 3w Cold Cathode G25 White |
| 8G2505F | 5w Cold Cathode G25 Frost |
| 8G2505SB | 5w Cold Cathode G25 Silver Bowl |
| 8G25C05CL | 5w Cold Cathode G25 Candelabra Clear |
| 8G25C05WH | 5w Cold Cathode G25 Candelabra White |
| 8G25C08WH | 8w Cold Cathode G25 Candelabra White |
| 8G3008F | 8w Cold Cathode G30 Frost |
| 8PF3008 | 8w Cold Cathode Flat Par30 |
| 8PF300841K | 8w Cold Cathode Flat Par30 41K |
| 8PF380841K | 8w Cold Cathode Flat Par38 41K |
| 8R2003CL | 3w Cold Cathode R20 Clear |
| 8R2003F | 3w Cold Cathode R20 Frost |
| 8R2005BL | 5w Cold Cathode R20 Blue |
| 8R2005CL41K | 5w Cold Cathode R20 Clear 41K |
| 8R2005F41K | 5w Cold Cathode R20 Frost 41K |
| 8R2005GR | 5w Cold Cathode R20 Green |
| 8R2005LV | 5w Cold Cathode R20 LV |
| 8R2005RD | 5w Cold Cathode R20 Red |
| 8R2005Y | 5w Cold Cathode R20 Yellow |
| 8R2008CL | 8w Cold Cathode R20 Clear |
| 8R2008GR | 8w Cold Cathode R20 Green |
| 8R2008P | 8w Cold Cathode R20 Pink |
| 8R2008RD | 8w Cold Cathode R20 Red |
| 8R2008WH | 8w Cold Cathode R20 White |
| 8R3008BL | 8w Cold Cathode R30 Blue |
| 8R3008CL41K | 8w Cold Cathode R30 Clear 41K |
| 8R3008F41K | 8w Cold Cathode R30 Frost 41K |
| 8R3008GR | 8w Cold Cathode R30 Green |
| 8R3008LV | 8w Cold Cathode R30 LV |
| 8R3008RD | 8w Cold Cathode R30 Red |
| 8R3008WH | 8w Cold Cathode R30 White |
| 8R3008Y | 8w Cold Cathode R30 Yellow |
| 8T03CL | 3w Cold Cathode Torpedo Clear |
| 8T03F | 3w Cold Cathode Torpedo Frost |
| 8T03LV | 3w Cold Cathode Torpedo LV |
| 8T03WH | 3w Cold Cathode Torpedo White |
| 8T05CL41K | 5w Cold Cathode Torpedo Clear 41K |
| 8T05LV | 5w Cold Cathode Torpedo LV |
| 8T05WH | 5w Cold Cathode Torpedo White |
| 8T08CL | 8w Cold Cathode Torpedo Clear |
| 8T08CL41K | 8w Cold Cathode Torpedo Clear 41K |
| 8T08F | 8w Cold Cathode Torpedo Frost |
| 8T08F41K | 8w Cold Cathode Torpedo Frost 41K |
| 8T08LV | 8w Cold Cathode Torpedo LV |
| 8T08WH41K | 8w Cold Cathode Torpedo White 41K |
| 8TC03F | 3w Cold Cathode Torpedo Candelabra Frost |
| 8TC03WH | 3w Cold Cathode Torpedo Candelabra White |
| 8TC05LV | 5w Cold Cathode Torpedo Candelabra LV |
| 8TC05WH | 5w Cold Cathode Torpedo Candelabra White |
| 8TC08CL | 8w Cold Cathode Torpedo Candelabra Clear |
| 8TC08F | 8w Cold Cathode Torpedo Candelabra Frost |
| 8TC08WH | 8w Cold Cathode Torpedo Candelabra White |

| Item # | Description |
|-------------|--|
| 8TF03F | 3w Cold Cathode Flame Tip Frost |
| 8TF03LV | 3w Cold Cathode Flame Tip LV |
| 8TF03WH | 3w Cold Cathode Flame Tip White |
| 8TF05LV | 5w Cold Cathode Flame Tip LV |
| 8TF08CL | 8w Cold Cathode Flame Tip Clear |
| 8TF08CL41K | 8w Cold Cathode Flame Tip Clear 41K |
| 8TF08F | 8w Cold Cathode Flame Tip Frost |
| 8TF08LV | 8w Cold Cathode Flame Tip LV |
| 8TF08WH | 8w Cold Cathode Flame Tip White |
| 8TFC03F41K | 3w Cold Cathode Flame Tip Candelabra 41K |
| 8TFC03LV | 3w Cold Cathode Flame Tip Candelabra LV |
| 8TFC03WH | 3w Cold Cathode Flame Tip Candelabra White |
| 8TFC05CL41K | 5w Cold Cathode Flame Tip Candelabra Clear 41K |
| 8TFC05F41K | 5w Cold Cathode Flame Tip Candelabra Frost 41K |
| 8TFC08CL | 8w Cold Cathode Flame Tip Candelabra Clear |
| 8TFC08F | 8w Cold Cathode Flame Tip Candelabra Frost |
| 8TFC08F41K | 8w Cold Cathode Flame Tip Candelabra Frost 41K |
| 8TFC08LV | 8w Cold Cathode Flame Tip Candelabra LV |
| 8TFC08WH | 8w Cold Cathode Flame Tip Candelabra White |
| 8TFC08WH41K | 8w Cold Cathode Flame Tip Candelabra White 41K |

| CIRCLINE LAMPS | |
|----------------|----------------------------------|
| 12530 | 30w Elec Circle (No Lamp) |
| 12536 | 36w Elec Circe Adptor - No Bulb |
| 1253630 | 36w Elec Circle W/30w Bulb Bw |
| 16533 | 33w 3-Way Ballast |
| 17033 | 33w Elec Cir Bntwng No Lamp |
| 17033L31K | 33w Twin T6 Lamps 31K |
| 17036 | 36w Eelec Circle Adapt Only |
| 3201835K | 18w Circline T6 Lamp 35K |
| 3201841K | 18w Circline T6 Lamp 41K |
| 3201851K | 18w Circline T6 Lamp 51K |
| 3201865K | 18w Circline T6 Lamp 65K |
| 3202041K | 20w Circline Lamp 41K |
| 3202241K | 22w Circline Lamp 41K |
| 3202735K | 27w Circline T6 Lamp 35K |
| 3202741K | 27w Circline T6 Lamp 41K |
| 3202751K | 27w Circline T6 Lamp 51K |
| 3202765K | 27w Circline T6 Lamp 65K |
| 3203035K | 30w Circline Lamp 35K |
| 3203041K | 30w Circline Lamp 41K |
| 3203051K | 30w Circline Lamp 51K |
| 3203231K | 32w Circline 31K |
| 3203235K | 32w Circline T6 Lamp 35K |
| 3203241K | 32w Circline T6 Lamp 41K |
| 3203251K | 32w Circline T6 Lamp 51K |
| 3203265K | 32w Circline T6 Lamp 65K |
| 32033 | 33w Double T6 Circline |
| 3203331K | 33w T6 Circline Lamp Only 31K NS |
| 320402D | 40w 2D Replacement Lamp |
| 320402D41K | 40w 2D Replacement Lamp 41K |
| 3204035K | 40w Double T6 Circle Lamp 35K |
| 3204041K | 40w Double T6 Circline Lamp 41K |
| 3204051K | 40w Double T6 Circline Lamp 51K |
| 3204065K | 40w Double T6 Circle Lamp 65K |
| 320582D | 58w 2D Lamp |
| 320582D35K | 58w 2D Replacement Lamp 35K |
| 320582D51K | 58w 2D Replacement Lamp 51K |
| 3205831K | 58w Circline 31K |
| 3205841K | 58w Double T6 Circline Lamp 41K |
| 3205851K | 58w Double T6 Circline Lamp 51K |

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SPO Listing

2010 LAMPS & BALLASTS

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