SINCE 1945

KEYSTONE

CELEBRATING **75** YEARS

LIGHTING PRODUCTS
QUICK REFERENCE GUIDE

1945 **75** **2020**
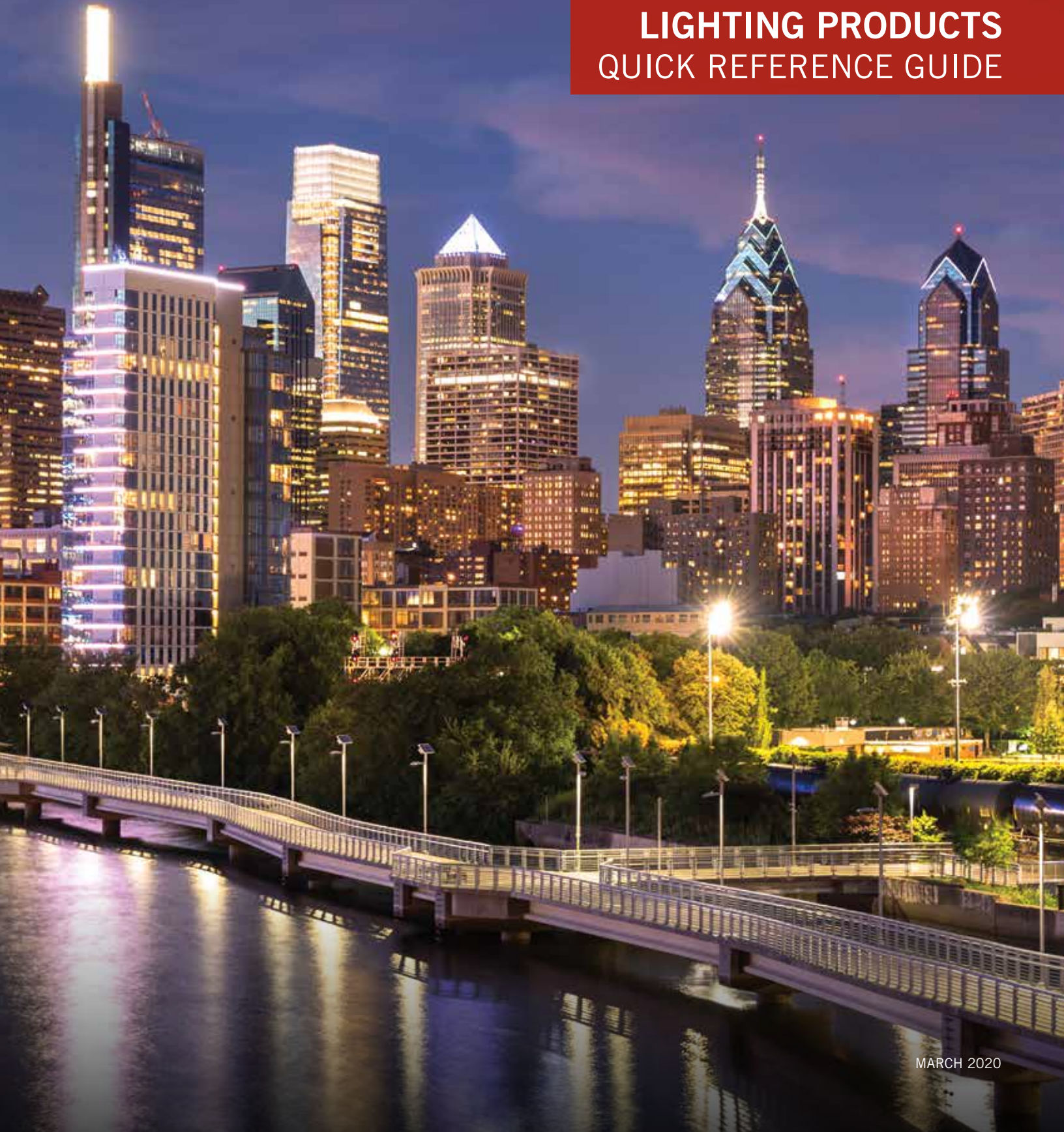
3 GENERATIONS OF FAMILY OWNERSHIP
Left: Ira Greenberg, CEO **I Center:** Marvin Spielman, Founder **I Right:** Fred Greenberg, President

In 1945, my grandfather Marvin Spielman, and great uncle Harold Fox, started Keystone with little more than a dream, a prepaid purchase order, and an attic. From the beginning, they instilled an entrepreneurial, customer-first spirit into our DNA, which continues to be reflected in our philosophy of Light Made Easy and reputation for startup-like flexibility.

We've learned from the generations of Keystone team members who've helped build our solid foundation, while simultaneously looking toward the future and daring to ask, "Can we provide you with an even better experience?".

While Keystone has grown out of Harold's attic, expanded beyond ballasts, and invested across the globe, we remain ever-committed to the customer-first foundation Marvin and Harold laid 75 years ago.

To our loyal customers, suppliers, team members and partners, on behalf of the entire Keystone family, thank you for a bright 75 years. Looking ahead, you can continue to count on us to exceed your expectations, raise industry standards, and be the easiest lighting manufacturer to do business with.

Sincerely,

Ira Greenberg

Ira Greenberg, CEO

TABLE OF **CONTENTS**

Seeing is believing.
Free samples **always** available to help you **win** the job.

LIGHT MADE EASY™
^ *samples*

Ordering a sample is easy: Phone: 800-464-2680 | Email: samples@keystonetech.com | Web: keystonetech.com/samples

THE KEYSTONE DIFFERENCE

- Free samples
- Friendly customer service
- Fast quotes
- Quick delivery
- Industry-leading warranty
- U.S. based

FULFILLMENT CENTERS

Headquarters: Philadelphia, PA

Additional Fulfillment Center Locations:

Atlanta, GA	Kansas City, MO
Charlotte, NC	Los Angeles, CA
Chicago, IL	Louisville, KY
Dallas, TX	Memphis, TN
Denver, CO	Nashville, TN
Fort Lauderdale, FL	Portland, OR
Houston, TX	San Francisco, CA
Indianapolis, IN	

POP DISPLAYS

Seeing is believing! That's why we offer a variety of point of purchase displays.
Contact your local Keystone representative to include a display with your next shipment.

Retail Display

Sign Hero Countertop Display

Essential Series Retail Display

HID LED Countertop Display

LED BULBS
Performance Series A-Shape LED Bulbs

PERFORMANCE SERIES
COMMERCIAL GRADE SCREW-IN LED BULBS

FEATURES AND BENEFITS

- **Universal input voltage (120-277V)**
- **Dimmable 20W option (120V only)**
- Omni-directional light output
- Can be used in base-up or base-down position
- Rated for use in both open and enclosed fixtures
- Suitable for dry and damp locations
- UL 1993 and 1598C Rated

TYPICAL APPLICATIONS

| Post Top | Bollard | Outdoor Corridor | | Swan Fixtures |

COMMERCIAL A21 LED BULBS

Equiv. Legacy Wattage	Catalog Number	Rated Lamp Wattage	Base Type	Dimmable	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Light Distribution	Efficacy
100W Incandescent	KT-LED14A21-O-E26-8xx	14W	E26	No	120–277V	>80	1,960		25,000	340º	140 lm/W
150W Incandescent	KT-LED20A21-O-E26-8xx	20W	E26	No	120–277V	>80	2,760		25,000	340º	138 lm/W
DIMMABLE; 120V INPUT											
150W Incandescent	KT-LED20A21-O-E26-8xx-DIM	20W	E26	Yes	120V	>80	2,710		25,000	340º	125 lm/W

COMMERCIAL A23 LED BULBS

Equiv. Legacy Wattage	Catalog Number	Rated Lamp Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Light Distribution	Efficacy
200W Incandescent/ 100W HID	KT-LED25A23-O-E26-8xx	25W	E26	120–277V	>80	3,590		50,000	330º	143 lm/W
200W Incandescent/ 100W HID	KT-LED25A23-O-EX39-8xx	25W	EX39*	120–277V	>80	3,590		50,000	330º	143 lm/W

DLC Listed

COMMERCIAL A25 LED BULBS

Equiv. Legacy Wattage	Catalog Number	Rated Lamp Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Light Distribution	Efficacy
300W Incandescent/ 150W HID	KT-LED35A25-O-E26-8xx	35W	E26	120–277V	>80	4,850		50,000	330º	139 lm/W
300W Incandescent/ 150W HID	KT-LED35A25-O-EX39-8xx	35W	EX39*	120–277V	>80	4,850		50,000	330º	139 lm/W

DLC Listed

| **WARM WHITE** 2700K | **SOFT WHITE** 3000K | **COOL WHITE** 4000K | **DAYLIGHT WHITE** 5000K |

8xx and **9xx** in catalog numbers denote several color temperatures available. See charts for color temperature availability.

15,000/25,000 Hour Rated Life

230º Beam Angle

3 YEAR WARRANTY

UL LISTED

ENERGY STAR

ESSENTIAL SERIES
GENERAL PURPOSE LED BULBS

FEATURES AND BENEFITS
- Smooth diffused lens for comfortable, glare-free performance
- Durable plastic housing lowers the risk of breakage
- Rated for use in enclosed fixtures

TYPICAL APPLICATIONS

Table, Desk, & Floor Lamps | Wall Sconces | Surface Mount Ceiling Fixtures | Pendant Lights | General Lighting

A19 AND A21 DIMMABLE LED

E26 BASE | GU24 BASE

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals	
									JA8 T24	CEC T20
40W	KT-LED6A19-O-8xx	6W	E26	120V	≥80	450		15,000	No	No
60W	KT-LED9.5A19-O-8xx	9.5W	E26	120V	≥80	800		15,000	No	No
60W	KT-LED9.5A19-O-8xx-GU24	9.5W	GU24	120V	≥80	800		15,000	No	No
75W	KT-LED11A19-O-8xx	11W	E26	120V	≥80	1,100		15,000	No	No
100W	KT-LED16A21-O-8xx	16W	E26	120V	≥80	1,600		15,000	No	No

A19 AND A21 NON-DIMMING LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals	
									JA8 T24	CEC T20
40W	KT-LED6A19-O-8xx-ND	6W	E26	120V	≥80	480		15,000	No	No
60W	KT-LED9A19-O-8xx-ND	9W	E26	120V	≥80	800		15,000	No	No
60W	KT-LED9A19-O-8xx-ND-6PK*	9W	E26	120V	≥80	800		15,000	No	No
40W/60W/100W	KT-LED16A21-O-8xx-3W	5.5W/8W/16W	E26	120V	≥80	450/800/1,600		15,000	No	No

*6-pack only

90 CRI A19 AND A21 DIMMABLE LED

PRECISION RENDERING HiCRI 90+ CRI

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals	
									JA8 T24	CEC T20
40W	KT-LED6A19-O-9xx	6W	E26	120V	≥90	450		15,000	Yes	Yes
60W	KT-LED9A19-O-9xx	9W	E26	120V	≥90	800		15,000	Yes	Yes
75W	KT-LED12A19-O-9xx	12W	E26	120V	≥90	1,100		25,000	Yes	Yes
100W	KT-LED16A21-O-9xx	16W	E26	120V	≥90	1,600		25,000	Yes	Yes

WARM WHITE 2700K

SOFT WHITE 3000K

NEUTRAL WHITE 3500K

COOL WHITE 4000K

DAYLIGHT WHITE 5000K

8xx and *9xx* in catalog numbers denote several color temperatures available. See charts for color temperature availability.

PRECISION RENDERING HiCRI 90+ CRI

Many of our Essential Series LED bulbs are available in a HiCRI option. These bulbs offer enhanced color rendering compared to 80 CRI LED bulbs, providing superior clarity, representation, and uniformity of illuminated areas and objects.
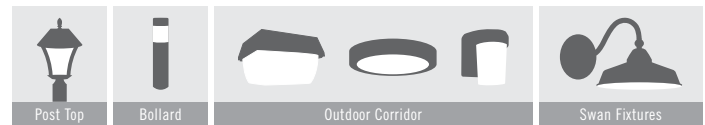
LED BULBS
Performance Series PAR LED Bulbs

PERFORMANCE SERIES
COMMERCIAL GRADE SCREW-IN LED BULBS

FEATURES AND BENEFITS

- **Universal input voltage (120-277V)**
- Up to 75% energy savings compared to legacy equivalent lamps
- Can be used in base-up or base-down position
- Rated for open and recessed fixtures
- Large metal heat sink for optimal heat dissipation
- THD: <20%; power factor: >0.90
- Operating temperature range –4ºF/–20ºC to 113ºF/45ºC
- Ideal for recessed corridor and high-power flood lighting
- Suitable for dry and damp locations
- UL 1993 Rated

TYPICAL APPLICATIONS

Recessed Downlights	Flood Lighting	Swan Fixtures

COMMERCIAL A23 LED BULBS

Equiv. Legacy Wattage	Catalog Number	Rated Lamp Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Light Distribution	Efficacy
250W Halogen	KT-LED18PAR38-NF-8xx	18W	E26	120–277V	>80	2,100	■□■	50,000	25º	114 lm/W
250W Halogen	KT-LED18PAR38-F-8xx	18W	E26	120–277V	>80	2,100	■□■	50,000	40º	114 lm/W

SOFT WHITE 3000K	**COOL WHITE** 4000K	**DAYLIGHT WHITE** 5000K

8xx and *9xx* in catalog numbers denote several color temperatures available. See charts for color temperature availability.

Dimmable | 25,000 Hour Rated Life | 3 YEAR WARRANTY

ESSENTIAL SERIES
GENERAL PURPOSE LED BULBS

FEATURES AND BENEFITS

- **Dimmable**
- Precision crafted full-face optics for precise beam angle control
- Durable plastic housing lowers the risk of breakage
- Rated for use in enclosed fixtures and wet locations

TYPICAL APPLICATIONS

Flood and Spot Lighting | Track Lighting | Display Lighting | Outdoor Fixtures

PAR20 LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Beam Angle	Available Color Temps	Rated Life (Hours)	Additional Approvals	
										JA8 T24	CEC T20
50W	KT-LED5PAR20-F-8xx	5W	E26	120V	≥80	500	40°	▪▪▫▪	25,000	No	No

90 CRI PAR20 LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Beam Angle	Available Color Temps	Rated Life (Hours)	Additional Approvals	
										JA8 T24	CEC T20
50W	KT-LED6PAR20-F-9xx	6W	E26	120V	≥90	500	40°	▪▪▫▪	25,000	Yes	Yes

PAR30 LED

LONG NECK | SHORT NECK

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Beam Angle	Available Color Temps	Rated Life (Hours)	Additional Approvals	
										JA8 T24	CEC T20
75W	KT-LED10PAR30S-F-8xx*	10W	E26	120V	≥80	900	40°	▪▪▫▪	25,000	No	No
75W	KT-LED10PAR30-F-8xx	10W	E26	120V	≥80	900	40°	▪▪▫▪	25,000	No	No
75W	KT-LED10PAR30S-NF-8xx*	10W	E26	120V	≥80	900	25°	▪▪▫▪	25,000	No	No

*Short neck

WARM WHITE 2700K | **SOFT WHITE** 3000K | **COOL WHITE** 4000K | **DAYLIGHT WHITE** 5000K

8xx and *9xx* in catalog numbers denote several color temperatures available. See charts for color temperature availability.

PRECISION RENDERING HiCRI 90+ CRI — Many of our Essential Series LED bulbs are available in a HiCRI option. These bulbs offer enhanced color rendering compared to 80 CRI LED bulbs, providing superior clarity, representation, and uniformity of illuminated areas and objects.

continued on next page

⚡ ENERGY STAR | **Ⓤ UL LISTED** | ☀ Dimmable | ♥ 25,000 Hour Rated Life | **3 YEAR WARRANTY**

continued from previous page

90 CRI PAR30 LED

LONG NECK / SHORT NECK	Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Beam Angle	Available Color Temps	Rated Life (Hours)	Additional Approvals	
											JA8 T24	CEC T20
	75W	KT-LED9.5PAR30S-F-9xx*	9.5W	E26	120V	≥90	800	40°	🟧🟨⬜🟦	25,000	Yes	Yes
	75W	KT-LED9.5PAR30-F-9xx	9.5W	E26	120V	≥90	800	40°	🟧🟨⬜🟦	25,000	Yes	Yes
	75W	KT-LED9.5PAR30S-NF-9xx*	9.5W	E26	120V	≥90	800	25°	🟧🟨⬜🟦	25,000	Yes	Yes

*Short neck

PAR38 LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Beam Angle	Available Color Temps	Rated Life (Hours)	Additional Approvals	
										JA8 T24	CEC T20
120W	KT-LED13PAR38-F-8xx	12.5W	E26	120V	≥80	1,200	40°	🟧🟨⬜🟦	25,000	No	No
120W	KT-LED13PAR38-NF-8xx	13.2W	E26	120V	≥80	1,250	25°	🟧🟨⬜🟦	25,000	No	No

90 CRI PAR38 LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Beam Angle	Available Color Temps	Rated Life (Hours)	Additional Approvals	
										JA8 T24	CEC T20
90W	KT-LED11.5PAR38-F-9xx	11.5W	E26	120V	≥90	1,000	40°	🟧🟨⬜🟦	25,000	Yes	Yes
90W	KT-LED11.5PAR38-NF-9xx	11.5W	E26	120V	≥90	1,000	25°	🟧🟨⬜🟦	25,000	Yes	Yes

WARM WHITE 2700K	**SOFT WHITE** 3000K	**COOL WHITE** 4000K	**DAYLIGHT WHITE** 5000K

8xx and **9xx** in catalog numbers denote several color temperatures available. See charts for color temperature availability.

PRECISION RENDERING HiCRI 90+ CRI — Many of our Essential Series LED bulbs are available in a HiCRI option. These bulbs offer enhanced color rendering compared to 80 CRI LED bulbs, providing superior clarity, representation, and uniformity of illuminated areas and objects.

Dimmable

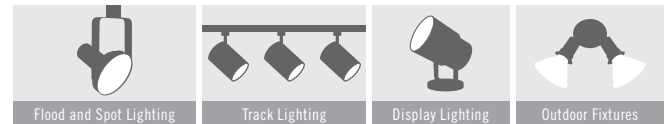**15,000/25,000 Hour** Rated Life

3 YEAR WARRANTY

ESSENTIAL SERIES
GENERAL PURPOSE LED BULBS

FEATURES AND BENEFITS

- **Dimmable**
- Precision crafted full-face optics for precise beam angle control
- Durable plastic housing lowers the risk of breakage
- Rated for use in enclosed fixtures
- Compatible with Keystone low voltage transformers (12V models only)

TYPICAL APPLICATIONS

Track Lighting | Display Lighting | Undercabinet Lighting | Outdoor Landscape
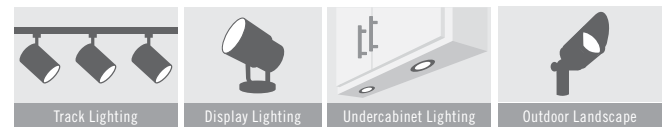
MR16 LED

GU5.3 BASE / GU10 BASE	Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Beam Angle	Additional Approvals	
											JA8 T24	CEC T20
	35W	KT-LED6MR16-S-8xx	6W	GU5.3	12V	≥80	450		25,000	35º	No	No
	50W	KT-LED6.5MR16-S-8xx-GU10	6.5W	GU10	120V	≥80	500		15,000	40º	No	No

90 CRI MR16 LED

	Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Beam Angle	Additional Approvals	
											JA8 T24	CEC T20
	50W	KT-LED7MR16-S-9xx	7W	GU5.3	12V	≥90	500		25,000	35º	Yes	Yes
	75W	KT-LED7.5MR16-S-9xx	7.5W	GU5.3	12V	≥90	570		25,000	35º	No	Yes
	75W	KT-LED7.5MR16-NS-9xx	7.5W	GU5.3	12V	≥90	570		25,000	25º	No	Yes

PAR16 LED

	Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Beam Angle	Additional Approvals	
											JA8 T24	CEC T20
	50W	KT-LED6.5PAR16-S-8xx	6.5W	E26	120V	≥80	500		15,000	40º	No	No

WARM WHITE 2700K	SOFT WHITE 3000K	COOL WHITE 4000K	DAYLIGHT WHITE 5000K

8xx and *9xx* in catalog numbers denote several color temperatures available. See charts for color temperature availability.

PRECISION RENDERING HiCRI —90+CRI— Many of our Essential Series LED bulbs are available in a HiCRI option. These bulbs offer enhanced color rendering compared to 80 CRI LED bulbs, providing superior clarity, representation, and uniformity of illuminated areas and objects.

COMPATIBLE 120V-12V STEP-DOWN TRANSFORMERS

60W / 75W / 150W	Max. Input Power	Input Voltage	Catalog Number	Output Voltage	Dimmable	Approvals
	60W	120V	KTET-60-1-SCP-DIM-AL	12V	Yes	
	75W	120V	KTET-75-1-SCP-DIM-HV-AL	12V	Yes	
	150W	120V	KTET-150-1-SCP-DIM	11.4V	Yes	

Some minimum load requirements; check keystonetech.com for detailed compatibility list

LED BULBS
Essential Series Reflector LED Bulbs

ESSENTIAL SERIES
GENERAL PURPOSE LED BULBS

FEATURES AND BENEFITS

- **Dimmable**
- Smooth diffused lens for comfortable, glare-free performance
- Durable plastic housing lowers the risk of breakage
- Rated for use in enclosed fixtures

TYPICAL APPLICATIONS

Recessed Downlights   Track Lighting   Pendant Lights

R20 LED

	Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals	
										JA8 T24	CEC T20
	50W	KT-LED7.5R20-8xx	7.5W	E26	120V	≥80	525		15,000	No	No

90 CRI R20 LED

	Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals	
										JA8 T24	CEC T20
	50W	KT-LED7.5R20-9xx	7.5W	E26	120V	≥90	525		15,000	No	No

BR30 LED

	Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals	
										JA8 T24	CEC T20
	65W	KT-LED9BR30-8xx	9W	E26	120V	≥80	650		15,000	No	No
	65W	KT-LED9BR30-8xx-6PK*	9W	E26	120V	≥80	650		15,000	No	No

*6-pack only

90 CRI BR30 LED

	Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals	
										JA8 T24	CEC T20
	65W	KT-LED8BR30-9xx	8W	E26	120V	≥90	700		15,000	Yes	Yes

ENERGY STAR · **UL LISTED** · ☀ **Dimmable** · ♥ **15,000 Hour Rated Life** · **120° Beam Angle** · **3 YEAR WARRANTY**

BR40 LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals	
									JA8 T24	CEC T20
90W/85W	KT-LED15BR40-8xx	15W	E26	120V	≥80	1,300	■■□■	15,000	No	No
75W/65W	KT-LED11.5BR40-8xx	11.5W	E26	120V	≥80	940	■■□■	15,000	No	No

90 CRI BR40 LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals	
									JA8 T24	CEC T20
85W	KT-LED13BR40-9xx	13W	E26	120V	≥90	1,100	■■□■	15,000	Yes	Yes

WARM WHITE 2700K	SOFT WHITE 3000K	NEUTRAL WHITE 3500K	COOL WHITE 4000K	DAYLIGHT WHITE 5000K

8xx and *9xx* in catalog numbers denote several color temperatures available. See charts for color temperature availability.

PRECISION RENDERING HiCRI 90+ CRI Many of our Essential Series LED bulbs are available in a HiCRI option. These bulbs offer enhanced color rendering compared to 80 CRI LED bulbs, providing superior clarity, representation, and uniformity of illuminated areas and objects.

LED BULBS
## Essential Series Decorative LED Bulbs

ENERGY STAR | UL LISTED | Dimmable | 15,000 Hour Rated Life | 360° Beam Angle | 3 YEAR WARRANTY

ESSENTIAL SERIES
GENERAL PURPOSE LED BULBS

FEATURES AND BENEFITS

- **Dimmable**
- Filament style LED construction offers unique traditional appearance for decorative and mood sensitive applications
- Frosted and clear lens options available to suit a variety of intended aesthetics and design goals
- Rated for use in enclosed fixtures

TYPICAL APPLICATIONS

| Chandeliers | Vanity Fixtures | Decorative Accent Lighting | Wall Sconces | Pendant Lights |
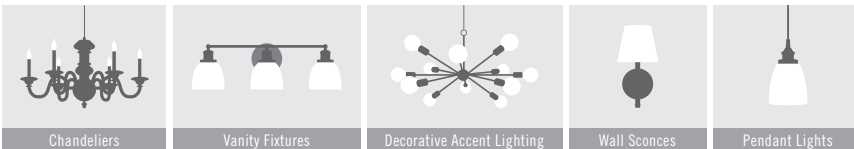
B11 STRAIGHT TIP CHANDELIER LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Glass Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals JA8 T24	CEC T20
40W	KT-LED4.5FB11-E12-927-C	4.5W	E12	Clear	120V	≥90	350	■	15,000	No	Yes
	KT-LED4FB11-E26-927-C	4W	E26	Clear	120V	≥90	350	■	15,000	No	Yes
60W	KT-LED5.5FB11-E12-9xx-C	5.5W	E12	Clear	120V	≥90	500	■ ■	15,000	No	Yes
	KT-LED5.5FB11-E26-927-C	5.5W	E26	Clear	120V	≥90	500	■	15,000	No	Yes

E26 BASE   E12 BASE

PRECISION RENDERING HICRI 90+CRI

CA11 BENT TIP CHANDELIER LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Glass Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	Additional Approvals JA8 T24	CEC T20
40W	KT-LED4.5FCA11-E12-927-C	4.5W	E12	Clear	120V	≥90	350	■	15,000	No	Yes
60W	KT-LED5.5FCA11-E12-9xx-C	5.5W	E12	Clear	120V	≥90	500	■ ■	15,000	No	Yes

PRECISION RENDERING HICRI 90+CRI

A19 FILAMENT LED

CLEAR / FROSTED	Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Glass Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	JA8 T24	CEC T20
	40W	KT-LED5FA19-E26-9xx-C	5W	E26	Clear	120V	≥90	450	▰▰	15,000	No	Yes
	40W	KT-LED5FA19-E26-9xx-F	5W	E26	Frosted	120V	≥90	450	▰▰	15,000	No	Yes
	60W	KT-LED8FA19-E26-9xx-C	8W	E26	Clear	120V	≥90	800	▰▰▰	15,000	Yes	Yes
	60W	KT-LED8FA19-E26-9xx-F	8W	E26	Frosted	120V	≥90	800	▰▰▰	15,000	Yes	Yes

G16.5 SMALL GLOBE FILAMENT LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Glass Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	JA8 T24	CEC T20
40W	KT-LED4.5FG16-F-E12-9xx-C	4.5W	E12	Clear	120V	≥90	350	▰▰	15,000	No	Yes

G25 GLOBE FILAMENT LED

CLEAR / FROSTED	Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Glass Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	JA8 T24	CEC T20
	60W	KT-LED5.5FG25-E26-9xx-C	5.5W	E26	Clear	120V	≥90	500	▰▰▰	15,000	No	Yes
	60W	KT-LED5.5FG25-E26-9xx-F	5.5W	E26	Frosted	120V	≥90	500	▰▰	15,000	No	Yes

ST19 EDISON SHAPE AMBER FILAMENT LED

Equiv. Legacy Wattage	Catalog Number	Wattage	Base Type	Glass Type	Input Voltage	CRI	Lumens	Available Color Temps	Rated Life (Hours)	JA8 T24	CEC T20
40W	KT-LED4.5FST19-E26-822-A*	4.5W	E26	Amber	120V	≥80	350	▰	15,000	No	No

Not available in HiCRI

WARM WHITE 2200K · WARM WHITE 2700K · SOFT WHITE 3000K · COOL WHITE 4000K · DAYLIGHT WHITE 5000K

8xx and *9xx* in catalog numbers denote several color temperatures available. See charts for color temperature availability.

LINEAR LED TUBES
External Drive T8

DLC QPL™ LISTED

EXTERNAL DRIVE LED
TYPE C LED TUBES

FEATURES AND BENEFITS
- **UL Type C LED tubes, powered by Keystone Type C LED drivers (driver required)**
- **Keystone T8 linear and U-bend lamp and driver pairings wire exactly the same as instant start T8 ballasts for quick and easy installation**
- UL Classified Std. 1598C
- T8 and T5 linear lamps are glass construction with metal end caps; U-bend lamps are nano plastic construction
- Operating temperature: -20ºC/-4ºF to 45ºC/113ºF
- 0-10V dimmable; low optical flicker

2' T8 LAMPS

Catalog Number	CRI	Bare Lamp Wattage	Lumens	Driver: KTLD-4LT8-UV-8C-VDIM		Driver: KTLD-2LT8-UV-8C-VDIM		4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy	Meets DLC
				4 Lamps	3 Lamps	2 Lamps	1 Lamp			
KT-LED8T8-24G-8xx-E	>82	8W	1,200	8.9W	9.0W	9.1W	9.2W	135 lm/W	132 lm/W	Yes

3' T8 LAMPS

Catalog Number	CRI	Bare Lamp Wattage	Lumens	Driver:KTLD-4LT8-UV-12C-VDIM		Driver: KTLD-2LT8-UV-12C-VDIM		4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy	Meets DLC
				4 Lamps	3 Lamps	2 Lamps	1 Lamp			
KT-LED12T8-36G-8xx-E	>83	12W	1,780	13.4W	13.5W	13.8W	14.1W	133 lm/W	129 lm/W	Yes

4' T8 LAMPS (10W)

Catalog Number	CRI	Bare Lamp Wattage	Lumens	Driver: KTLD-4LT8-UV-10C-VDIM		Driver: KTLD-2LT8-UV-10C-VDIM		4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy	Meets DLC
				4 Lamps	3 Lamps	2 Lamps	1 Lamp			
KT-LED10T8-48G-8xx-E	>83	10W	1,700	11.5W	11.5W	11.5W	11.5W	148 lm/W	148 lm/W	Yes

4' T8 LAMPS (12W)

Catalog Number	CRI	Bare Lamp Wattage	Lumens	Driver: KTLD-4LT8-UV-12C-VDIM		Driver: KTLD-2LT8-UV-12C-VDIM		4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy	Meets DLC
				4 Lamps	3 Lamps	2 Lamps	1 Lamp			
KT-LED12T8-48G-8xx-E	>82	12W	1,800	13.4W	13.5W	13.8W	14.1W	134 lm/W	130 lm/W	Yes

8xx denotes several color temperatures available. 3' lamps and 10W 4' lamp also available in 3000K.

835	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

DRIVER INFORMATION

Catalog Number	Description	Dimensions
KTLD-2LT8-UV-8C-VDIM	LED driver for (1-2) 2' 8W Type C T8 lamps; 120-277V input; 0-10V dimming; 185mA output current	9.50" x 1.30" x 1.10"
KTLD-2LT8-UV-10C-VDIM	LED driver for (1-2) 4' 10W Type C T8 lamps; 120-277V input; 0-10V dimming; 260mA output current	9.50" x 1.30" x 1.10"
KTLD-2LT8-UV-12C-VDIM	LED driver for (1-2) 3' and 4' 12W Type C T8 lamps; 120-277V input; 0-10V dimming; 270mA output current	9.50" x 1.80" x 1.30"
KTLD-4LT8-UV-8C-VDIM	LED driver for (3-4) 2' 8W Type C T8 lamps; 120-277V input; 0-10V dimming; 185mA output current	9.50" x 1.30" x 1.10"
KTLD-4LT8-UV-10C-VDIM	LED driver for (3-4) 4' 10W Type C T8 lamps; 120-277V input; 0-10V dimming; 260mA output current	9.50" x 1.80" x 1.30"
KTLD-4LT8-UV-12C-VDIM	LED driver for (3-4) 3' and 4' 12W Type C T8 lamps; 120-277V input; 0-10V dimming; 270mA output current	9.50" x 1.80" x 1.30"

5 YEAR WARRANTY

50,000 HOUR LIFETIME
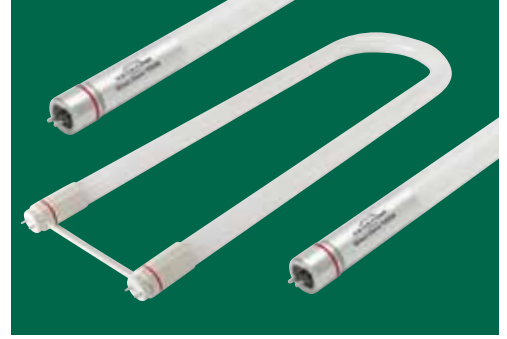
EXTERNAL DRIVE LED
TYPE C LED TUBES

4' T5HO LAMPS

Catalog Number	Nominal Length	CRI	Bare Lamp Wattage	Lumens	System Wattage per Lamp				4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy
					KTLD-4LT5HO-UV-22C-VDIM		KTLD-2LT5HO-UV-22C-VDIM			
					4 Lamps	3 Lamps	2 Lamps	1 Lamp		
KT-LED22T5HO-48G-8xx-E	4'	>82	22W	3400	25.1W	25.4	25.3W	25.7W	135 lm/W	134 lm/W

4' T5HE LAMPS

Catalog Number	Nominal Length	CRI	Bare Lamp Wattage	Lumens	System Wattage per Lamp				4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy
					KTLD-4LT5HE-UV-12C-VDIM		KTLD-2LT5HE-UV-12C-VDIM			
					4 Lamps	3 Lamps	2 Lamps	1 Lamp		
KT-LED12T5HE-48G-8xx-E	4'	>82	12W	1800	13.4W	13.5W	13.8W	14.1W	134 lm/W	130 lm/W

6" T8 U-BEND LAMPS

Catalog Number	Nominal Size	CRI	Bare Lamp Wattage	Lumens	System Wattage per Lamp				4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy
					KTLD-4LT8-UV-12C-VDIM		KTLD-2LT8-UV-12C-VDIM			
					4 Lamps	3 Lamps	2 Lamps	1 Lamp		
KT-LED12T8-U6P-8xx-E	6"	>82	12W	1800	13.4W	13.5W	13.8W	14.1W	134 lm/W	130 lm/W

8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K

DRIVER INFORMATION

Catalog Number	Description	Dimensions
KTLD-2LT5HE-UV-12C-VDIM	Driver for (1-2) 4' 12W Type C T5HE lamps; 120-277V input; 0-10V dimming; 270mA output current	1.10" x 1.33" x 9.50"
KTLD-2LT5HO-UV-22C-VDIM	Driver for (1-2) 4' 22W Type C T5HO lamps; 120-277V input; 0-10V dimming; 520mA output current	1.10" x 1.33" x 9.50"
KTLD-2LT8-UV-12C-VDIM	Driver for (1-2) 4' 12W Type C T8 (U-bend) lamps; 120-277V input; 0-10V dimming; 270mA output current	1.10" x 1.33" x 9.50"
KTLD-4LT5HE-UV-12C-VDIM	Driver for (3-4) 4' 12W Type C T5HE lamps; 120-277V input; 0-10V dimming; 270mA output current	1.30" x 1.80" x 9.60"
KTLD-4LT5HO-UV-22C-VDIM	Driver for (3-4) 4' 22W Type C T5HO lamps; 120-277V input; 0-10V dimming; 520mA output current	1.30" x 1.80" x 9.60"

LINEAR LED TUBES
Sign Hero LED Sign Tubes

SIGN HERO
LED SIGN TUBES

Keystone's LED Sign Tubes: The Fastest LED Installation
Sign Hero LED sign tube lets you bypass the ballast without an external driver
for the fastest and most affordable LED upgrade.

SAM · UL CLASSIFIED · 5 YEAR WARRANTY · 50,000 HOUR LIFETIME

FEATURES AND BENEFITS
- Patent pending
- Installs using existing sockets in the sign; all necessary wiring can be done within ballast raceway
- Optical lens over individual LEDs for optimal light spread within the sign
- Over 50% more energy efficient than HO fluorescent lamps
- UL Classified: LED sign retrofit, evaluated to UL 48 / UL 879A Standards
- No external driver or power supply needed
- 120-277V input
- Operating temperature: -20ºC/-22ºF to 55ºC/131ºF
- Optimized spacing 6" from the face and 12" on center

Wide light distribution = No shadowing No hotspots

ROTATABLE
BASE
R17D

UL Classified: LED Sign Retrofit, Evaluated to UL 48 / UL 879A Standards • Listed in the UL SAM Manual

SIGN HERO 360 ENERGY SAVINGS*			SIGN HERO 180 ENERGY SAVINGS*		
540W (6) F96T12HO	VS	**252W** (6) *SIGN HERO* LED	**540W** (6) F96T12HO	VS	**126W** (6) *SIGN HERO* LED

*Standard 6-lamp, 8' sign with magnetic ballast

ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
KTSP-10KV	External surge protector; input voltage: 120-277V; maximum peak current: 10kV; IP65 Rated
KT-SH-4L-CABLE-KIT	Cable mounting accessory for Sign Hero LED lamps; 1-4 lamp applications; designed to prevent lamp sagging for horizontal applications over 8' long; includes options for mounting via magnets or tek screws
KT-SH-6L-CABLE-KIT	Cable mounting accessory for Sign Hero LED lamps; 1-6 lamp applications; designed to prevent lamp sagging for horizontal applications over 8' long; includes options for mounting via magnets or tek screws

For installation video, visit keystonetech.com/video

Available for All Size Sign Cabinets

For easy replacement, Sign Hero is available in all of the same lamp lengths as T8HO and T12HO fluorescent lamps

NEW! *SIGN HERO* 180 — SINGLE-SIDED LED SIGN TUBE

Keystone's single-sided sign tube can be used for retrofits or new installations.

Catalog Number	Nominal Length	CRI	Wattage	Socket Type	Total Lumens	Efficacy
KT-LED4T8-18P1S-8xx-D	18"	>80	4W	R17d	480	120 lm/W
KT-LED5T8-24P1S-8xx-D	24"	>80	5W	R17d	600	120 lm/W
KT-LED7T8-30P1S-8xx-D	30"	>80	7W	R17d	840	120 lm/W
KT-LED8T8-36P1S-8xx-D	36"	>80	8W	R17d	1,000	125 lm/W
KT-LED9T8-42P1S-8xx-D	42"	>80	9W	R17d	1,125	125 lm/W
KT-LED11T8-48P1S-8xx-D	48"	>80	11W	R17d	1,340	122 lm/W
KT-LED13T8-60P1S-8xx-D	60"	>80	13W	R17d	1,625	125 lm/W
KT-LED14T8-64P1S-8xx-D	64"	>80	14W	R17d	1,725	123 lm/W
KT-LED16T8-72P1S-8xx-D	72"	>80	16W	R17d	2,000	125 lm/W
KT-LED19T8-84P1S-8xx-D	84"	>80	19W	R17d	2,350	124 lm/W
KT-LED21T8-96P1S-8xx-D	96"	>80	21W	R17d	2,650	126 lm/W
KT-LED24T8-108P1S-8xx-D	108"	>80	24W	R17d	2,900	120 lm/W
KT-LED25T8-117P1S-8xx-D	117"	>80	25W	R17d	3,100	124 lm/W
KT-LED26T8-120P1S-8xx-D	120"	>80	26W	R17d	3,200	123 lm/W

SIGN HERO 360 — DOUBLE-SIDED LED SIGN TUBE

Keystone's double-sided sign tube can be used for retrofits and new installations, as well as single- or double-sided signs.

Catalog Number	Nominal Length	CRI	Wattage	Socket Type	Total Lumens	Efficacy	Lumens Per Side	Lumens/Ft, Per Side
KT-LED7T8-18P2S-8xx-D	18"	>80	7W	R17d	900	129 lm/W	450	300
KT-LED10T8-24P2S-8xx-D	24"	>80	10W	R17d	1,200	120 lm/W	600	300
KT-LED13T8-30P2S-8xx-D	30"	>80	13W	R17d	1,600	123 lm/W	800	320
KT-LED16T8-36P2S-8xx-D	36"	>80	16W	R17d	2,000	125 lm/W	1,000	333
KT-LED18T8-42P2S-8xx-D	42"	>80	18W	R17d	2,250	125 lm/W	1,125	321
KT-LED21T8-48P2S-8xx-D	48"	>80	21W	R17d	2,600	124 lm/W	1,300	325
KT-LED26T8-60P2S-8xx-D	60"	>80	26W	R17d	3,250	125 lm/W	1,625	325
KT-LED28T8-64P2S-8xx-D	64"	>80	28W	R17d	3,450	123 lm/W	1,725	325
KT-LED31T8-72P2S-8xx-D	72"	>80	31W	R17d	4,000	129 lm/W	2,000	333
KT-LED37T8-84P2S-8xx-D	84"	>80	37W	R17d	4,700	127 lm/W	2,350	336
KT-LED42T8-96P2S-8xx-D	96"	>80	42W	R17d	5,300	126 lm/W	2,650	331
KT-LED47T8-108P2S-8xx-D	108"	>80	47W	R17d	5,800	123 lm/W	2,900	322
KT-LED50T8-117P2S-8xx-D	117"	>80	50W	R17d	6,200	124 lm/W	3,100	318
KT-LED52T8-120P2S-8xx-D	120"	>80	52W	R17d	6,400	123 lm/W	3,200	320

8xx denotes several color temperatures available:

| 840 | 800 Series, 4000K | 865 | 800 Series, 6500K |

ETL Intertek · cULus CLASSIFIED · RoHS Compliant · 5 YEAR WARRANTY · 50,000 HOUR LIFETIME

DLC QPL LISTED

DIRECTDRIVE LED
LINE VOLTAGE T5 TUBES

BYPASS THE BALLAST
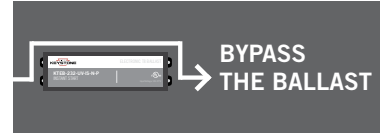
FEATURES AND BENEFITS

- **Replacement for conventional T5HE and T5HO fluorescent lamps**
- Shatterproof coated glass construction
- Easy installation: Single-ending wiring; re-wire existing non-shunted sockets in the fixture
- Peak performance: Up to 3,400 lumens
- Over 50% energy savings compared to fluorescent T5HE and T5HO lamps
- Eliminates the need for multiple expensive ballasts in 6-lamp high bay fixtures
- Environmentally friendly: No mercury used
- Instant startup
- Frosted lens eliminates pixelation
- Operating temperature: -20ºC/-4ºF to 45ºC/113ºF
- Integral driver (isolated), eliminates the need for external driver or ballast

Catalog Number	Nominal Length	Input Voltage	CRI	Lamp Wattage	Lumens	Beam Angle	Safety Coating	Efficacy	Meets DLC
T5HE GLASS CONSTRUCTION									
KT-LED9T5HE-24GC-8xx-D	2'	120-277V	>80	9W	1,200	240º	Yes	133 lm/W	N/A
KT-LED12T5HE-36GC-8xx-D	3'	120-277V	>80	12W	1,400	240º	Yes	116 lm/W	N/A
KT-LED13T5HE-48GC-8xx-D	4'	120-277V	>80	13W	1,800	240º	Yes	139 lm/W	Yes
T5HO GLASS CONSTRUCTION									
KT-LED12T5HO-24GC-8xx-D	2'	120-277V	>80	12W	1,500	240º	Yes	125 lm/W	N/A
KT-LED16T5HO-36GC-8xx-D	3'	120-277V	>80	16W	1,900	240º	Yes	119 lm/W	N/A
KT-LED25T5HO-48GC-8xx-D /G2	4'	120-277V	>80	25W	3,400	240º	Yes	136 lm/W	Yes

*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K

NSF. | **ETL Intertek** | **CLASSIFIED c UL us** | **c UL us** | **RoHS Compliant** | **5 YEAR WARRANTY** | **50,000 HOUR LIFETIME**

DIRECTDRIVE DX2
SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

Catalog Number	Nominal Length	Input Voltage	CRI	Lamp Wattage	Lumens	Safety Coating	Light Spread	Efficacy	Meets DLC
T8 GLASS CONSTRUCTION									
KT-LED7T8-24GC-8xx-DX2	2'	120-277V	>83	7W	950	Yes	325°	136 lm/W	Yes
KT-LED12T8-36GC-8xx-DX2	3'	120-277V	>83	12W	1,450	Yes	325°	121 lm/W	Yes
KT-LED9T8-48G-8xx-DX2	4'	120-277V	>83	9W	1,650	No	325°	183 lm/W	Yes
KT-LED10.5T8-48G-8xx-DX2 /G2*	4'	120-277V	>83	10.5W	1,720	No	325°	164 lm/W	Yes
KT-LED14.5T8-48G-8xx-DX2	4'	120-277V	>83	14.5W	1,890	No	325°	130 lm/W	Yes
KT-LED15T8-48GC-8xx-DX2	4'	120-277V	>83	15W	1,900	Yes	325°	127 lm/W	Yes
KT-LED18.5T8-48GC-8xx-DX2 /G2	4'	120-277V	>83	18.5W	2,600	Yes	325°	141 lm/W	Yes
KT-LED25T8-48G-850-DX2	4'	120-277V	>83	25W	3,000	No	325°	120 lm/W	Yes

Compatible with SmartSafe 5W and 12W micro inverters (KT-EMRG-LED-5-500-AC and KT-EMRG-LED-12-1200-AC)

8xx denotes several color temperatures available. 18.5W only available in 3500K, 4000K, and 5000K.

830	800 Series, 3000K	**835**	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K	**865**	800 Series, 6500K

ONE TUBE. TWO WAYS TO INSTALL.
SINGLE- OR DOUBLE-ENDED WIRING

SINGLE-ENDED WIRING

Non-Shunted Lampholders

LINE
NEUTRAL

Side A | DirectDrive DX2 LED Tube | Side B — No Live Connection
Side A | DirectDrive DX2 LED Tube | Side B
Side A | DirectDrive DX2 LED Tube | Side B
Side A | DirectDrive DX2 LED Tube | Side B
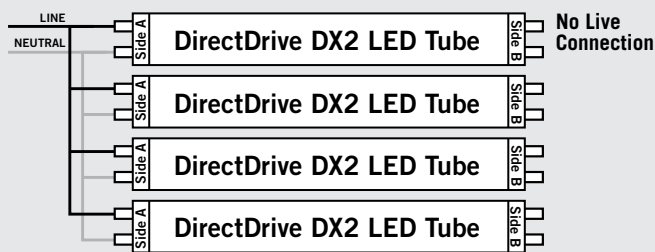
DOUBLE-ENDED WIRING

Shunted Lampholders

LINE

Side A | DirectDrive DX2 LED Tube | Side B — NEUTRAL
Side A | DirectDrive DX2 LED Tube | Side B
Side A | DirectDrive DX2 LED Tube | Side B
Side A | DirectDrive DX2 LED Tube | Side B

Non-Shunted Lampholders

LINE

Side A | DirectDrive DX2 LED Tube | Side B — NEUTRAL
Side A | DirectDrive DX2 LED Tube | Side B
Side A | DirectDrive DX2 LED Tube | Side B
Side A | DirectDrive DX2 LED Tube | Side B
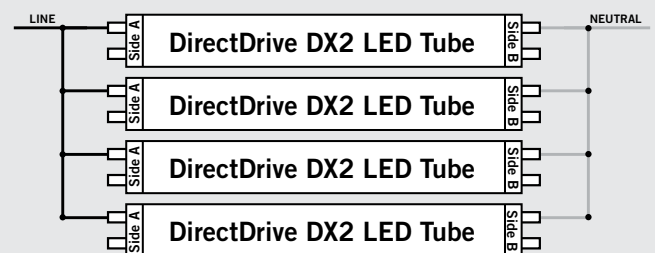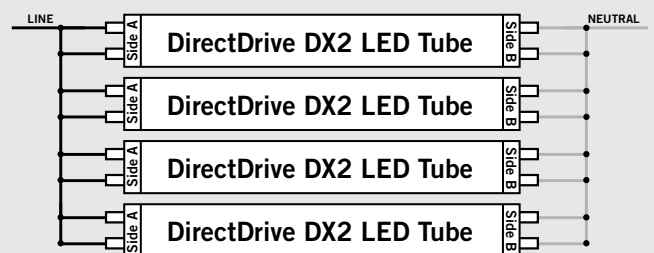
LINEAR LED TUBES
T8 DirectDrive

DIRECTDRIVE LED
LINE VOLTAGE T8 TUBES

BYPASS THE BALLAST

T8 LAMPS UNDER 8'

Catalog Number	Nominal Length	Input Voltage	CRI	Lamp Wattage	Lumens	Safety Coating	Light Spread	Efficacy	Meets DLC	Additional Approvals
T8 GLASS CONSTRUCTION, SINGLE-ENDED WIRING										
KT-LED7T8-24GC-8xx-D	2'	120-277V	>80	7W	950	Yes	325°	136 lm/W	Yes	
KT-LED9T8-24GC-8xx-D	2'	120-277V	>83	9W	1,000	Yes	325°	111 lm/W	No	
KT-LED12T8-36GC-8xx-D	3'	120-277V	>80	12W	1,300	Yes	325°	108 lm/W	Yes	
KT-LED10.5T8-48G-8xx-D	4'	120-277V	>83	10.5W	1,750	No	325°	162 lm/W	Yes	
KT-LED10.5T8-48GC-8xx-D	4'	120-277V	>83	10.5W	1,750	Yes	325°	162 lm/W	Yes	
KT-LED12.5T8-48GC-8xx-D	4'	120-277V	>80	12.5W	1,850	Yes	325°	148 lm/W	Yes	
KT-LED15T8-48GC-8xx-D /G3	4'	120-277V	>83	15W	1,900	Yes	325°	127 lm/W	Yes	
KT-LED18.5T8-48GC-8xx-D	4'	120-277V	>83	18.5W	2,500	Yes	325°	135 lm/W	Yes	
KT-LED24T8-60GC-8xx-D	5'	120-277V	>83	24W	2,500	Yes	325°	104 lm/W	N/A	
KT-LED32T8-72GC-8xx-D	6'	120-277V	>80	32W	3,400	Yes	325°	106 lm/W	N/A	
HiCRI T8 GLASS CONSTRUCTION, SINGLE-ENDED WIRING										
KT-LED15T8-48GC-9xx-D	4'	120-277V	>90	15W	1,675	Yes	325°	112 lm/W	Yes	

8' T8 LAMPS

Catalog Number	Nominal Length	Input Voltage	CRI	Lamp Wattage	Lumens	Safety Coating	Light Spread	Efficacy	Meets DLC	Additional Approvals
8' T8 GLASS CONSTRUCTION, DOUBLE-ENDED WIRING										
KT-LED25T8-96G-8xx-D	8' Single Pin	120-277V	>80	25W	3,500	No	325°	140 lm/W	No	
KT-LED43T8-96G-8xx-D	8' Single Pin	120-277V	>80	43W	5,500	No	325°	128 lm/W	Yes	
KT-LED43T8HO-96G-8xx-D	8' HO	120-277V	>80	43W	5,550	No	325°	129 lm/W	No	
8' T8 PLASTIC/ALUMINUM CONSTRUCTION, DOUBLE-ENDED WIRING										
KT-LED36T8-96P-8xx-D	8' Single Pin	120-277V	>80	36W	4,000	N/A	180°	111 lm/W	No	N/A
KT-LED54T8-96P-8xx-D /G2	8' HO	120-277V	>80	54W	5,900	N/A	180°	110 lm/W	N/A	

DirectDrive Tubes listed meet DLC 4.0+ requirements, unless otherwise noted.

8xx and *9xx* denote several color temperatures available. HiCRI T8 available in 4000K and 5000K only. 10.5W 4' T8 glass lamps not available in 6500K. 12W 3' T8 glass lamps not available in 3000K or 6500K. U-bend lamps not available in 3000K or 6500K.

830	800 Series, 3000K	**835**	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K	**865**	800 Series, 6500K, Not DLC Listed

cULus · **cULus CLASSIFIED** · **RoHS Compliant** · **5 YEAR WARRANTY** · **50,000 HOUR LIFETIME**

T8 BLACKLIGHT GLASS CONSTRUCTION, SINGLE-ENDED WIRING

Catalog Number	Nominal Length	Input Voltage	Lamp Wattage	UV Wavelength	Safety Coating	Light Spread	Meets DLC
KT-LED12T8-48G-BL-D	4'	120-277V	12W	365 nm	No	325º	No

T8 U-BEND LAMPS GLASS CONSTRUCTION, SINGLE-ENDED WIRING

Catalog Number	Nominal Size	Input Voltage	CRI	Lamp Wattage	Lumens	Safety Coating	Light Spread	Efficacy	Meets DLC	Additional Approvals
KT-LED15T8-U1G-8xx-D	1 5/8" U-Bend	120-277V	>80	15W	1,800	No	325º	120 lm/W	Yes	
KT-LED18T8-U6GC-8xx-D	6" U-Bend	120-277V	>80	18W	2,150	Yes	325º	119 lm/W	Yes	NSF

DirectDrive Tubes listed meet DLC 4.0+ requirements, unless otherwise noted.

8xx and *9xx* denote several color temperatures available. HiCRI T8 available in 4000K and 5000K only. 10.5W 4' T8 glass lamps not available in 6500K. 12W 3' T8 glass lamps not available in 3000K or 6500K. U-bend lamps not available in 3000K or 6500K.

830	800 Series, 3000K	**835**	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K	**865**	800 Series, 6500K, Not DLC Listed

LINEAR LED TUBES
Fixtures and Accessories

LED TUBE STRIP FIXTURES

Catalog Number	Description	Application
KT-DDSLEDT8-4-2L	2-lamp 4' LED tube ready strip fixture (lamps sold separately)	High bay, low bay, warehouse, and general lighting
KT-DDSLEDT8-8-4L	4-lamp 8' LED tube ready strip fixture (lamps sold separately)	High bay, low bay, warehouse, and general lighting

LED TUBE WRAP FIXTURE

Catalog Number	Description	Application
KT-DDWLEDT8-4-2L	2-lamp 4' LED tube ready wrap fixture (lamps sold separately)	Low bay, corridor, and general lighting

LED TUBE HIGH BAY FIXTURES

Catalog Number	Description
KT-DDHBLEDT8-4-4L	4-lamp 4' LED tube ready high bay fixture (lamps sold separately)
KT-DDHBLEDT8-4-6L	6-lamp 4' LED tube ready high bay fixture (lamps sold separately)

8' STRIP LED TUBE READY KIT

Catalog Number	Description
KT-RKIT-SP-W-82-C4-4LED	4-lamp 8' strip LED tube ready kit; pre-wired 4.25" ballast cover kit for DirectDrive LED tubes; includes (2) 4' ballast covers, (1) wiring harness, (4) additional sockets, and (8) tek screws

NOTE: The products listed above are specifically designed for use with Keystone's single-ended wiring (Type B) DirectDrive LED tubes: 18.5W max per lamp

DirectDrive WIRING HARNESSES

Catalog Number	Description
KT-SOCKET-T8-U-T-2-W	2-lamp wiring harness for LED tubes; includes (2) pre-wired tall, non-shunted sockets with Power Quick Disconnect
KT-SOCKET-T8-U-T-3-W	3-lamp wiring harness for LED tubes; includes (3) pre-wired tall, non-shunted sockets with Power Quick Disconnect
KT-SOCKET-T8-U-T-4-W	4-lamp wiring harness for LED tubes; includes (4) pre-wired tall, non-shunted sockets with Power Quick Disconnect
KT-SOCKET-T8-U-T-6-W	6-lamp wiring harness for LED tubes; includes (6) pre-wired tall, non-shunted sockets with Power Quick Disconnect
KT-SOCKET-T8-U-S-2-W	2-lamp wiring harness for LED tubes; includes (2) pre-wired standard, non-shunted sockets with Power Quick Disconnect
KT-SOCKET-T8-U-S-3-W	3-lamp wiring harness for LED tubes; includes (3) pre-wired standard, non-shunted sockets with Power Quick Disconnect
KT-SOCKET-T8-U-S-4-W	4-lamp wiring harness for LED tubes; includes (4) pre-wired standard, non-shunted sockets with Power Quick Disconnect
KT-SOCKET-T8-U-S-6-W	6-lamp wiring harness for LED tubes; includes (6) pre-wired standard, non-shunted sockets with Power Quick Disconnect
KT-WH-FA8-2L	Wiring harness for 8' DirectDrive LED tubes; no sockets included

DirectDrive Wiring Harness with Power Quick Disconnect

DirectDrive Wiring Diagram
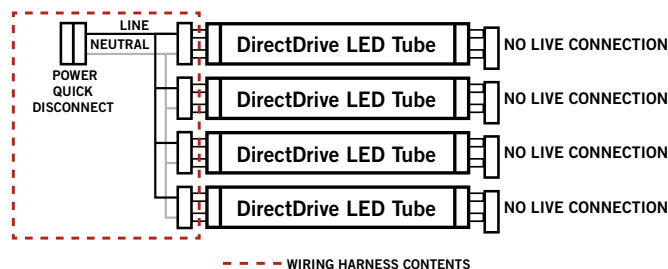
Individual sockets are available upon request.

DIMMABLE

RoHS Compliant

5 YEAR WARRANTY

50,000 HOUR LIFETIME

BYPASS THE BALLAST

DIRECTDRIVE LED
LINE VOLTAGE T8 TUBES

FEATURES AND BENEFITS

- **Dimmable**
- Replacement for conventional fluorescent lamps
- Approximately 40% more energy efficient than standard F32T8 lamps
- Environmentally friendly: no mercury used
- Instant startup
- Frosted lens eliminates pixelation
- Isolated integral driver eliminates the need for external driver or ballast

Catalog Number	Construction	Nominal Length	Input Voltage	Dimming Type	CRI	Lamp Wattage	Lumens	Light Spread	Efficacy	Meets DLC	Additional Approvals
DIMMABLE T8											
KT-LED14.5T8-48GC-8xx-D-FDIM	Shatterproof Coated Glass	4'	120V	TRIAC	>80	14.5W	1,900	325º	131 lm/W	Yes	ETL Intertek
EXCLUSIVE TO KEYSTONE KT-LED18T8-48P-8xx-D-VDIM	Plastic Aluminum	4'	120-277V	0-10V	>80	18W	2,100	180º	117 lm/W	Yes	N/A

8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K

LINEAR LED TUBES
SmartDrive T8 and T5

c(UL)us LISTED · RoHS Compliant · 5YEAR WARRANTY · 50,000 HOUR LIFETIME

DLC QPL LISTED™
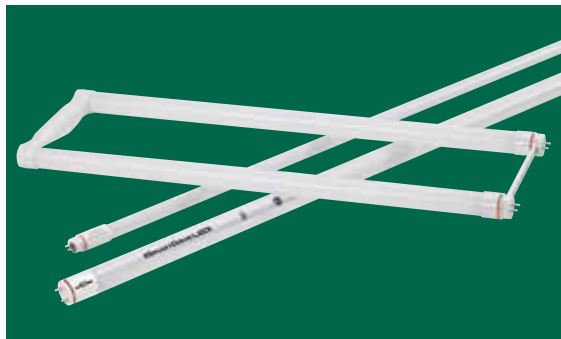
SMARTDRIVE LED
PLUG & PLAY WITH BALLAST

BALLAST COMPATIBLE

Catalog Number	Nominal Length	Bare Lamp Wattage	Nominal Lumens	Bare Lamp Efficacy	System Wattage			Initial Lumens			Safety Coating	Light Spread	Meets DLC	Additional Approvals
					.78 BF	.88 BF	1.18 BF	.78 BF	.88 BF	1.18 BF				
T8 GLASS CONSTRUCTION														
KT-LED8T8-24GC-8xx-S	2'	8W	1,250	138 lm/W	9.3W	10.4W	14.3W	1,125	1,250	1,625	Yes	325º	Yes	
KT-LED10T8-36GC-8xx-S	3'	10W	1,450	145 lm/W	10.9W	13.3W	18.6W	1,300	1,450	1,880	Yes	325º	Yes	
KT-LED11.5T8-48GC-8xx-S	4'	11.5W	1,800	157 lm/W	12.5W	13.9W	24.1W	1,620	1,800	2,330	Yes	325º	Yes	NSF
KT-LED12T8-48G-8xx-S /G2	4'	12W	1,800	150 lm/W	13.3W	15.0W	20.5W	1,620	1,800	2,330	No	325º	Yes	
KT-LED15T8-48GC-8xx-S	4'	15W	2,200	147 lm/W	15.8W	17.5W	24.1W	1,980	2,200	2,840	Yes	325º	Yes	
KT-LED15T8-48G-8xx-S /G2	4'	15W	2,200	147 lm/W	16.0W	18.0W	22.5W	1,980	2,200	2,840	No	325º	Yes	
T8 U-BEND GLASS CONSTRUCTION														
KT-LED15T8-U6GC-8xx-S	6" U-Bend	15W	2,200	147 lm/W	17.7W	20.2W	26.7W	1,930	2,200	2,800	Yes	325º	Yes	NSF

Catalog Number	Nominal Length	Bare Lamp Wattage	Initial Lumens	Bare Lamp Efficacy	System Wattage	Safety Coating	Light Spread	Meets DLC	Additional Approvals
T5 AND T5HO GLASS CONSTRUCTION									
KT-LED13T5HE-48GC-8xx-S	4'	13W	1,800	138 lm/W	17W	Yes	325º	Yes	ETL Intertek
KT-LED25.5T5HO-48GC-8xx-S	4'	25.5W	3,300	129 lm/W	30W	Yes	325º	Yes	

For all Keystone SmartDrive LED tubes, input voltage is ballast dependent and CRI >80.

Tubes listed above meet DLC 4.0+ requirements, unless otherwise noted.

*8xx denotes several color temperatures available:

830	800 Series, 3000K	835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K

OPTIONAL 0-10V DIMMING DRIVER FOR 11.5-15W SmartDrive T8 TUBES

Catalog Number	No. of Lamps	Input Volts	Line Current	Min. Power Factor	Output Current	Dimming Method
KTLD-2LEDT8-UV-IS-VDIM	1-2	120-277V	0.40-0.06A	0.9	190-210mA	0-10V

8' STRIP READY KIT

Catalog Number	Description
KT-RKIT-SP-W-82-C4-432I-N-W	4-lamp 8' strip ready kit; pre-wired 4.25" ballast cover kit for SmartDrive LED tubes or fluorescent lamps; includes (1) pre-wired ballast with sockets, (2) 4' ballast covers, and (8) tek screws

Consult Keystone for other custom options, such as alternate ballast types and additional reflectors.

RoHS Compliant · **5 YEAR** WARRANTY · **50,000 HOUR** LIFETIME · UL LISTED

COMBODRIVE 2
PLUG & PLAY OR DOUBLE-ENDED LINE VOLTAGE COMPATIBLE

DLC QPL LISTED

FEATURES AND BENEFITS

- **Plug and play application: Compatible with most instant start electronic T8 ballasts** (contact Keystone for ballast compatibility list)
- **Bypass ballast application: Runs on 120-277V line voltage**
- Double-ended wiring for bypass application

Catalog Number	Nominal Length	CRI	Bare Lamp Wattage	Initial Lamp Lumens	Ballast Compatible Application				Line Voltage Application		Safety Coating	Beam Angle	Meets DLC
					Input Voltage	System Wattage			Input Voltage	Lamp Wattage			
						.78 BF	.88 BF	1.18 BF					
T8 GLASS CONSTRUCTION													
KT-LED14T8-48G-8xx-X2	4'	≥80	14W	1,700	120-277V	16.5W	17W	18.5W	120-277V	14W	No	220°	Yes

8xx denotes several color temperatures available:

| 835 | 800 Series, 3500K | 840 | 800 Series, 4000K | 850 | 800 Series, 5000K |

ONE TUBE. TWO WAYS TO INSTALL.
PLUG & PLAY **OR** BALLAST BYPASS

WIRING DIAGRAMS (Double-Ended Wiring Only)

| PLUG & PLAY WITH BALLAST | Simply replace the existing fluorescent lamp with a Keystone ComboDrive LED lamp. **No additional wiring is required.** For ballast compatibility questions, please contact Keystone. |

BYPASS THE BALLAST (Shunted Lampholders)

LINE — Side A — ComboDrive 2 LED Tube — Side B — NEUTRAL
LINE — Side A — ComboDrive 2 LED Tube — Side B
LINE — Side A — ComboDrive 2 LED Tube — Side B
LINE — Side A — ComboDrive 2 LED Tube — Side B

BYPASS THE BALLAST (Non-Shunted Lampholders)

LINE — Side A — ComboDrive 2 LED Tube — Side B — NEUTRAL
LINE — Side A — ComboDrive 2 LED Tube — Side B
LINE — Side A — ComboDrive 2 LED Tube — Side B
LINE — Side A — ComboDrive 2 LED Tube — Side B
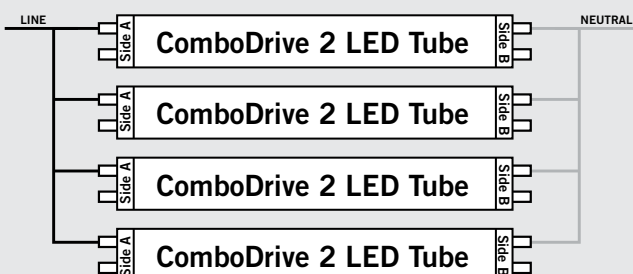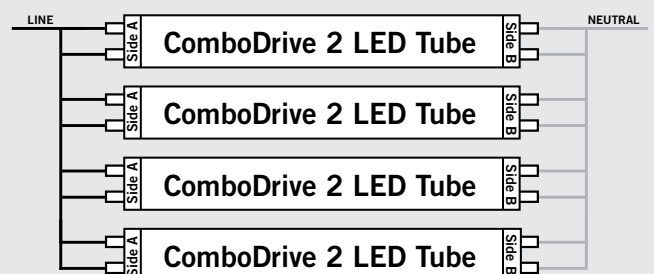
LINEAR LED TUBES
ComboDrive T8

UL LISTED · NSF · cULus CLASSIFIED · RoHS Compliant · 5 YEAR WARRANTY · 50,000 HOUR LIFETIME

COMBODRIVE LED
PLUG & PLAY OR LINE VOLTAGE COMPATIBLE

FEATURES AND BENEFITS

- **Plug and play application: Compatible with most instant start electronic T8 ballasts** (contact Keystone for ballast compatibility list)
- **Bypass ballast application: Runs on 120-277V line voltage**
- Single-ended wiring for bypass application

| Catalog Number | Nominal Length | Lamp Wattage | Lumens | Instant Start Ballast Compatible Application | | | | | | Line Voltage Application | | | Meets DLC |
| | | | | System Wattage | | | Initial Lumens | | | Input Voltage | Lamp Wattage | Initial Lumens | |
				.78 BF	.88 BF	1.18 BF	.78 BF	.88 BF	1.18 BF				
T8 SHATTERPROOF COATED GLASS CONSTRUCTION													
KT-LED9T8-24GC-8xx-X	2'	9W	1,150	11.2W	11.5W	12.1W	1,190	1,190	1,190	120-277V	9W	1,190	No
KT-LED15T8-48GC-8xx-X	4'	15W	1,800	16.2W	17.4W	18.5W	1,730	1,860	2,010	120-277V	15W	1,830	Yes*

*Type B-Mode only

For all Keystone ComboDrive linear LED lamps, input voltage is ballast dependent and beam angle is 220°.

***8xx** denotes several color temperatures available:

| 830 | 800 Series, 3000K | 835 | 800 Series, 3500K | 840 | 800 Series, 4000K | 850 | 800 Series, 5000K |

ONE TUBE. TWO WAYS TO INSTALL.
PLUG & PLAY **OR** BALLAST BYPASS

WIRING DIAGRAMS (Single-Ended Wiring Only)

| PLUG & PLAY WITH BALLAST | Simply replace the existing fluorescent lamp with a Keystone ComboDrive LED lamp. **No additional wiring is required.** For ballast compatibility questions, please contact Keystone. |

BYPASS THE BALLAST (Non-Shunted Lampholders Only)

LINE
NEUTRAL

Combo Drive LED Tube — No Live Connection
Combo Drive LED Tube
Combo Drive LED Tube
Combo Drive LED Tube
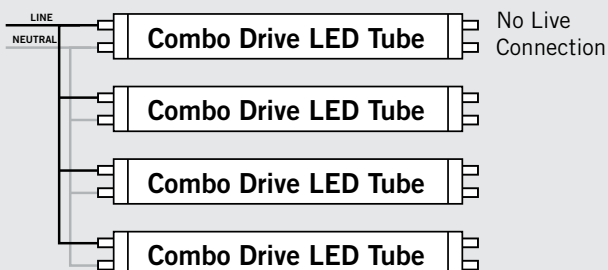
FEATURES AND BENEFITS

- Ideal for freezer cases, cove, and display applications
- Plugs directly into AC outlet
- ETL Listed
- 50,000+ hour lifetime
- Environmentally friendly: No mercury used
- Instant startup
- Nanoplastic lens for optimal strength and minimal weight
- Includes mounting brackets and 72" power cord
- Operating temperature: -30°C/-22°F to 40°C/104°F
- Bare lamp efficacy >120 lm/W
- Suitable for damp locations
- IP65 Rated

Catalog Number	Length	Input Voltage	Wattage	CRI	Total Lumens	Efficacy
KT-FTLED18T8-48P-8xx	4'	120V	18W	>80	2,250	125 lm/W
KT-FTLED22T8-60P-8xx	5'	120V	22W	>80	2,750	125 lm/W
KT-FTLED26T8-72P-8xx	6'	120V	26W	>80	3,250	125 lm/W

*8xx denotes several color temperatures available:

840	800 Series, 4000K	850	800 Series, 5000K

ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
KT-WH-FT-36	36" extension cord
KT-WH-FT-YS	Y-splitter cord

T8 LED FREEZER TUBE ACCESSORIES

PLUG (INCLUDED)

SUPPORT CLIPS (INCLUDED)

EXTENSION CORD

Y-SPLITTER CORD
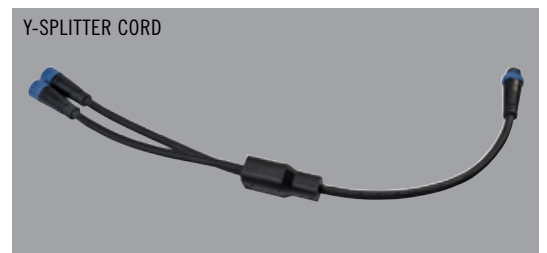
COMPACT LED LAMPS
DirectDrive Compact and PLL LED Lamps
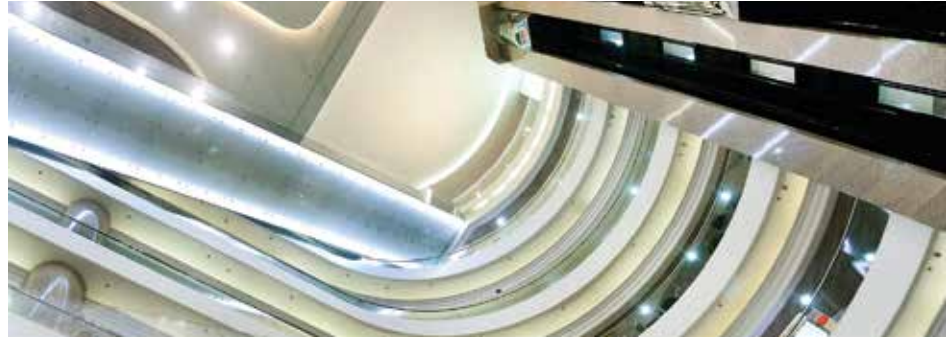
NEW! OMNI-DIRECTIONAL

		Catalog Number	Input Voltage	Base	Orientation	CRI	Lamp Wattage	Lumens	Meets DLC
6W	8W	**2-PIN OMNI-DIRECTIONAL 13W CFL LAMP REPLACEMENT**							
		KT-LED62P-O-8xx-D	120-277V	GX23	Omni-Directional	>80	6W	600	N/A
		2-PIN OMNI-DIRECTIONAL 18W CFL LAMP REPLACEMENT							
		KT-LED82P-O-8xx-D	120-277V	G24d	Omni-Directional	>80	8W	800	N/A

	Catalog Number	Input Voltage	Base	Orientation	CRI	Lamp Wattage	Lumens	Meets DLC
HORIZONTAL / SLIM HORIZONTAL / VERTICAL / EXTENDED VERTICAL	**2-PIN 13W CFL LAMP REPLACEMENT**							
	KT-LED62P-H-8xx-D	120-277V	GX23	Horizontal	>80	6W	500	N/A
	KT-LED62P-HS-8xx-D	120-277V	GX23	Slim Horizontal	>82	6W	550	N/A
	2-PIN 18W, 26W, 32W, OR 42W CFL LAMP REPLACEMENT							
	KT-LED82P-H-8xx-D	120-277V	G24d*	Horizontal	≥83	8W	900	N/A
	KT-LED82P-V-8xx-D	120-277V	G24d*	Vertical	≥83	8W	900	N/A
	KT-LED82P-EV-8xx-D	120-277V	G24d*	Extended Vertical	≥83	8W	900	N/A
	2-PIN 26W, 32W, OR 42W CFL LAMP REPLACEMENT							
	KT-LED162P-H-8xx-D	120-277V	G24d	Horizontal	>80	16W	1,900	N/A
	KT-LED162P-V-8xx-D	120-277V	G24d	Vertical	>80	16W	2,000	N/A

Works in both G24d and G24q bases

DIRECTDRIVE LED
LINE VOLTAGE PLL LAMPS

	Catalog Number	Input Voltage	CRI	Bare Lamp Wattage	Nominal Lamp Lumens	Beam Angle	Nominal Bare Lamp Efficacy	Meets DLC
	2G11 PLL LAMP REPLACEMENT							
	KT-LED17PLL-22G-8xx-D	120-277V	>80	17W	2,200	220°	129 lm/W	Yes

	8xx denotes several color temperatures available. PLL lamps available in 3500K, 4000K, and 5000K only.				
827	800 Series, 2700K	**830** 800 Series, 3000K	**835** 800 Series, 3500K	**840** 800 Series, 4000K	**850** 800 Series, 5000K

		Catalog Number	Input Voltage	Base	Orientation	CRI	Lamp Wattage	System Wattage	Lumens	Meets DLC
HORIZONTAL	VERTICAL									
		4-PIN 18W, 26W, 32W, OR 42W CFL LAMP REPLACEMENT								
		KT-LED94P-H-8xx-S	Ballast Dependent	G24q	Horizontal	>80	9W	12W	950	Yes
		KT-LED94P-V-8xx-S	Ballast Dependent	G24q	Vertical	>80	9W	12W	950	Yes

			8xx denotes several color temperatures available:						
827	800 Series, 2700K	**830**	800 Series, 3000K	**835**	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

SMART PORT LED

Smart Port LED has three sensor options that include a microwave, PIR, and daylight sensor.
These sensors conveniently install in seconds via a standard 3.5mm AUX port connection.

MICROWAVE KTS-MW1-12V-AUX	**PIR (PASSIVE INFRARED)** KTS-PIR1-12V-AUX	**DAYLIGHT** KTS-PS1-12V-AUX

Choose your Keystone HID LED lamp with Smart Port LED technology

Choose your Smart Port LED sensor
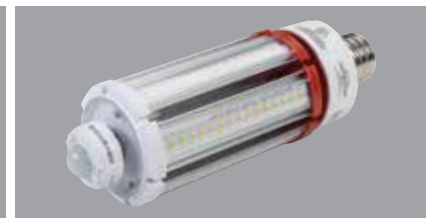
Plug in the sensor for instant controllability

MICROWAVE SENSOR
The microwave sensor offers:
- 360º detection through walls and objects
- Motion detection
- On-off functionality
- Standby level options: off, 20% dim, 40% dim, or 60% dim
- Hold time options for motion detection: 30 seconds, 90 seconds, 5 minutes, or 10 minutes
- Standard 3.5mm AUX port connection
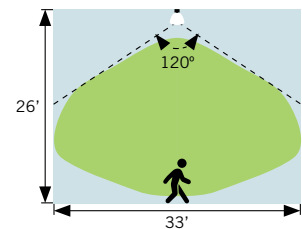
Typical Applications: warehouses, gymnasiums, corridors, stairwells, restrooms, courtyards, entryways, parking garages

Catalog Number	Input Voltage	Output Voltage	Output Current	Detection Angle	Max. Mounting Height	Detection Diameter at Max. Mounting Height
KTS-MW1-12V-AUX	12V	0-10V	20mA	120º	26'	33'

PIR (PASSIVE INFRARED) SENSOR
The PIR (passive infrared) sensor offers:
- Motion detection
- On-off functionality
- Standby level options: off, 20% dim, 40% dim, or 60% dim
- Hold time options for motion detection: 30 seconds, 90 seconds, 5 minutes, or 10 minutes
- Standard 3.5mm AUX port connection
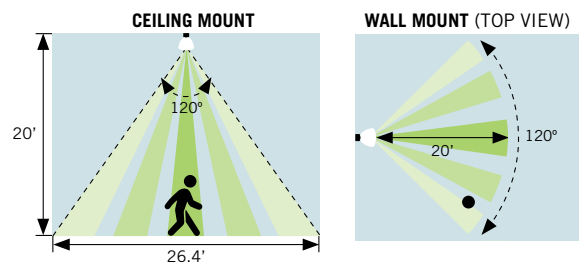
Typical Applications: warehouses, gymnasiums, corridors, parking garages

Catalog Number	Input Voltage	Output Voltage	Output Current	Detection Angle	Max. Mounting Height	Detection Diameter at Max. Mounting Height
KTS-PIR1-12V-AUX	12V	0-10V	20mA	120º	20'	26.4'

DAYLIGHT SENSOR

The daylight sensor offers:

• Natural light detection

• On-off functionality

• Reaction lux options: 20 lx, 50 lx, 100 lx, or 300 lx

• Hold time: 1 minute, 5 hours, 8 hours, or unlimited

• Standard 3.5mm AUX port connection
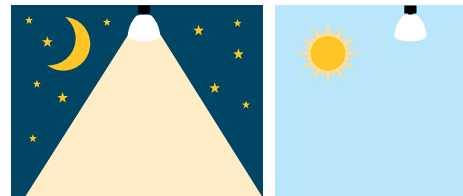
Typical Applications: warehouses, gymnasiums, corridors, parking garages

Catalog Number	Input Voltage	Output Voltage	Output Current
KTS-PS1-12V-AUX	12V	0-10V	20mA

Attaching controls to an HID LED lamp has been a challenge, limiting energy savings and rebate dollars. Now, with Smart Port LED, you can control and customize your LED lighting and improve your efficiency with ease. Simply insert the sensor and adjust the settings quickly. Even if you choose not to plug in a sensor, the lamp will operate normally.

These products from the following pages are equipped with Smart Port LED:

NEW! OMNIFLEX MULTI-ANGLE ADJUSTABLE DIRECT DRIVE LAMPS

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Base Type	Lumens
KT-LED70HID-ADJ-EX39-8xx-D	70W	250W Metal Halide	EX39	10,500

360º HID REPLACEMENT LED LAMPS

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Base Type	Lumens
KT-LED36HID-E26-8xx-D /G3	36W	150W	Medium E26	5,400
KT-LED36HID-EX39-8xx-D /G3	36W	150W	Mogul EX39	5,400
KT-LED45HID-E26-8xx-D /G3	45W	175W	Medium E26	6,750
KT-LED45HID-EX39-8xx-D /G3	45W	175W	Mogul EX39	6,750
KT-LED54HID-EX39-8xx-D /G3	54W	200-250W	Mogul EX39	8,100
KT-LED63HID-EX39-8xx-D /G3	63W	250W	Mogul EX39	9,450
KT-LED80HID-EX39-8xx-D /G2	80W	320W	Mogul EX39	12,000
KT-LED100HID-EX39-8xx-D /G2	100W	400W	Mogul EX39	15,000

HIGH BAY REPLACEMENT LED LAMPS

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Base Type	Lumens
KT-LED60HID-V-E26-8xx-D	60W	175W	E26 Medium	8,100
KT-LED60HID-V-EX39-8xx-D	60W	175W	EX39 Mogul	8,100
KT-LED80HID-V-E26-8xx-D /G2	80W	250W	E26 Medium	10,800
KT-LED80HID-V-EX39-8xx-D /G2	80W	250W	EX39 Mogul	10,800
KT-LED115HID-V-EX39-8xx-D /G2	115W	400W	EX39 Mogul	15,750

XPANDER 180º HORIZONTAL HID REPLACEMENT LED LAMPS*

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Base Type	Lumens
KT-LED80HID-H-EX39-8xx-D /G3	80W	250/320W	EX39 Rotatable	12,000
KT-LED110HID-H-EX39-8xx-D /G3	110W	400W	EX39 Rotatable	16,500

*not for use in wallpack fixtures

HID REPLACEMENT LED LAMPS
OmniFlex Multi-Angle Adjustable DirectDrive Lamps

NEW! OMNIFLEX

FEATURES AND BENEFITS

- **Equipped with Smart Port LED**
- Replacement for 250W metal halide lamp
- Not for use with standard dimmers
- 50,000+ hour lifetime
- Environmentally friendly: No mercury used
- Instant startup
- UL Listed
- Operating temperature: –30ºC/–22ºF to 45ºC/113ºF
- Integral driver, eliminates the need for external driver or ballast; includes 4kV surge protection
- Suitable for use in enclosed fixtures

Catalog Number	Input Voltage	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Lumens	CRI	Power Factor	Efficacy	Smart Port LED Technology
KT-LED70HID-ADJ-EX39-8xx-D	120–277V	70W	250W	10,500	≥80	≥0.9	150 lm/W	Yes

8xx denotes several color temperatures available:			
830	800 Series, 3000K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

APPLICATIONS
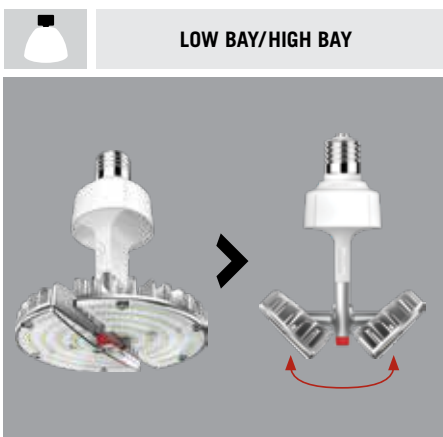
LOW BAY/HIGH BAY	POST TOP	SHOEBOX

BUILT-IN SURGE PROTECTION

BYPASS THE BALLAST

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Base Type	Lumens	CRI	Efficacy	Meets DLC	Length	Diameter	Smart Port LED Technology
KT-LED12HID-E26-8xx-D	12W	50W	Medium E26	1,740	>80	145 lm/W	N/A	4.92"	2.36"	No
KT-LED18HID-E26-8xx-D	18W	70W	Medium E26	2,610	>80	145 lm/W	N/A	5.70"	2.36"	No
KT-LED27HID-E26-8xx-D /G2	27W	100W	Medium E26	3,915	>80	145 lm/W	N/A	6.70"	2.36"	No
KT-LED27HID-EX39-8xx-D /G2	27W	100W	Mogul EX39	3,915	>80	145 lm/W	Yes	7.37"	2.36"	No
KT-LED36HID-E26-8xx-D /G3	36W	150W	Medium E26	5,400	>80	150 lm/W	N/A	7.95"	3.34"	Yes
KT-LED36HID-EX39-8xx-D /G3	36W	150W	Mogul EX39	5,400	>80	150 lm/W	Yes	8.62"	3.34"	Yes
KT-LED45HID-E26-8xx-D /G3	45W	175W	Medium E26	6,750	>80	150 lm/W	N/A	9.13"	3.34"	Yes
KT-LED45HID-EX39-8xx-D /G3	45W	175W	Mogul EX39	6,750	>80	150 lm/W	Yes	9.80"	3.34"	Yes
KT-LED54HID-EX39-8xx-D /G3	54W	200-250W	Mogul EX39	8,100	>80	150 lm/W	Yes	9.80"	3.34"	Yes
KT-LED63HID-EX39-8xx-D /G3	63W	250W	Mogul EX39	9,450	>80	150 lm/W	Yes	10.40"	3.34"	Yes
KT-LED80HID-EX39-8xx-D /G2	80W	320W	Mogul EX39	12,000	>80	150 lm/W	Yes	9.72"	5.12"	Yes
KT-LED100HID-EX39-8xx-D /G2	100W	400W	Mogul EX39	15,000	>80	150 lm/W	Yes	10.32"	5.12"	Yes

For all Keystone DirectDrive 360º lamps, input voltage is 120-277V.

*8xx denotes several color temperatures available.

| 830 | 800 Series, 3000K | 840 | 800 Series, 4000K | 850 | 800 Series, 5000K |

ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
KTSP-10KV	External surge protector; input voltage: 120-277V; maximum peak current: 10kV; IP65 Rated
KT-ADAPTER-E39-E26	Socket base adapter allowing an E26 base lamp to be used in an E39 socket
KTAT-70-480-277	480V to 277V step-down auto-transformer
KTAT-150-480-277-OC	480V to 277V step-down auto-transformer, open core
KTAT-250-480-277 /A	480V to 277V step-down auto-transformer

KTAT-150-480-277-OC OPEN CORE TRANSFORMER

HID REPLACEMENT LED LAMPS

DirectDrive Xpander 180º Horizontal Lamps

cULus LISTED | RoHS Compliant | 5YEAR WARRANTY | 50,000 HOUR LIFETIME

XPANDER

BUILT-IN SURGE PROTECTION
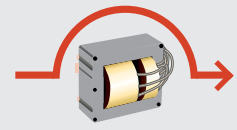
BYPASS THE BALLAST

FEATURES AND BENEFITS

- **Replacement for conventional metal halide lamps in canopy, wall pack, and shoebox fixtures**
- **Optimized for horizontal applications with directional light output**
- Environmentally friendly: no mercury used
- Instant startup
- Operating temperature: -40ºC/-40ºF to 45ºC/113ºF in enclosed fixture
- Integral driver, eliminates the need for external driver or ballast; includes 4kV surge protection
- Integrated heat sink quickly dissipates heat and guides water intrusion out of the lamp

EC&M. **Product of the Year**
2018 Category Winner

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Input Voltage	Base Type	Lumens	CRI	Efficacy	Meets DLC	Smart Port LED Technology
NEW! KT-LED27HID-H-E26-8xx-D	27W	100/150W	120-277V	E26 Rotatable	4,100	85	152 lm/W	N/A	No
KT-LED27HID-H-EX39-8xx-D	27W	100/150W	120-277V	EX39 Rotatable	4,100	85	152 lm/W	Yes	No
NEW! KT-LED45HID-H-E26-8xx-D	45W	175W	120-277V	E26 Rotatable	6,400	85	142 lm/W	N/A	No
KT-LED45HID-H-EX39-8xx-D	45W	175W	120-277V	EX39 Rotatable	6,400	85	142 lm/W	Yes	No
KT-LED63HID-H-EX39-8xx-D	63W	250W	120-277V	EX39 Rotatable	9,200	85	146 lm/W	Yes	No

HIGH WATTAGE

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Input Voltage	Base Type	Lumens	CRI	Efficacy	Meets DLC	Smart Port LED Technology
KT-LED80HID-H-EX39-8xx-D /G3	80W	250/320W	120-277V	EX39 Rotatable	12,000	85	150 lm/W	Yes	Yes
KT-LED110HID-H-EX39-8xx-D /G3	110W	400W	120-277V	EX39 Rotatable	16,500	85	150 lm/W	Yes	Yes

Not for use in wall pack fixtures

*__8xx__ denotes several color temperatures available. 80W and 110W lamps are not available in 3000K.

830	800 Series, 3000K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

Typical Applications

CANOPY

WALL PACK

SHOEBOX

RoHS Compliant · **5 YEAR WARRANTY** · **50,000 HOUR LIFETIME**

DIRECTDRIVE HID LED

BUILT-IN SURGE PROTECTION

BYPASS THE BALLAST

FEATURES AND BENEFITS

- **Replacement for conventional metal halide lamps**
- **Suitable for use in fully enclosed fixtures**
- Non-dimmable
- Environmentally friendly: no mercury used
- Instant startup
- Integral driver, eliminates the need for external driver or ballast; includes 6kV surge protection
- Operating temperature: -29ºC/-20ºF to 60ºC/140ºF

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Input Voltage	Base Type	Lumens	CRI	Efficacy	Meets DLC	Smart Port LED Technology
KT-LED60HID-V-E26-8xx-D	60W	175W	120-277V	E26 Medium	8,100	>80	135 lm/W	N/A	Yes
KT-LED60HID-V-EX39-8xx-D	60W	175W	120-277V	EX39 Mogul	8,100	>80	135 lm/W	Yes	Yes
KT-LED80HID-V-E26-8xx-D /G2	80W	250W	120-277V	E26 Medium	10,800	>80	135 lm/W	N/A	Yes
KT-LED80HID-V-EX39-8xx-D /G2	80W	250W	120-277V	EX39 Mogul	10,800	>80	135 lm/W	Yes	Yes
KT-LED115HID-V-EX39-8xx-D /G2	115W	400W	120-277V	EX39 Mogul	15,750	>80	137 lm/W	Yes	Yes

8xx denotes several color temperatures available. 115W lamp is not available in 3000K.

830	800 Series, 3000K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

HID REPLACEMENT LED LAMPS
SmartDrive High Bay Replacement Lamps

SMARTDRIVE HID LED

BUILT-IN SURGE PROTECTION
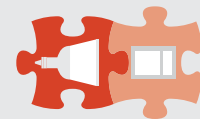
MAGNETIC HID BALLAST COMPATIBLE

FEATURES AND BENEFITS

- **Plug and play installation: Compatible with existing magnetic HID ballast, no re-wiring required**
- 50,000+ hour lifetime (L70); lasts 2.5x longer than standard HID lamps
- Environmentally friendly: no mercury used
- Instant startup
- Operating temperature: -40ºC/-40ºF to 30ºC/86ºF
- Suitable for dry and damp locations
- Frosted lens eliminates glare
- Rated for open or enclosed fixtures; suitable for use in fully enclosed fixtures
- Install only in vertical, base-up orientation
- Lower wattage draw can extend lifetime of HID ballast
- When retrofitted, existing fixture changes from a lagging (inductive) power factor source to a leading (capacitive) power factor source; this change may help improve the building's overall electrical power factor
- Does not work on reactor or electronic ballasts

400W METAL HALIDE REPLACEMENT

Catalog Number	Supported Ballast Types*	Lamp Wattage	Base Type	Orientation	Input Voltage	Driven by 400W (M59) Ballast		Driven by 320W (M154) Ballast	
						Lumens	System Wattage	Lumens	System Wattage
KT-LED130HID-V-EX39-8xx-S	400W (M59, M135, M155), 320W (M132, M154)	130W	EX39	Vertical	Ballast Dependent	13,000	166W	11,000	138W

For more information on SmartDrive HID LED lamp and ballast compatibility, go to keystonetech.com/compatibility-lists

175W METAL HALIDE REPLACEMENT

Catalog Number	Supported Ballast Types*	Lamp Wattage	Base Type	Orientation	Input Voltage	Driven by 175W (M57) Ballast	
						Lumens	System Wattage
KT-LED48HID-V-E26-840-S	175W (M57, M137, M152)	48W	E26	Vertical	Ballast Dependent	5,600	79W

For more information on SmartDrive HID LED lamp and ballast compatibility, go to keystonetech.com/compatibility-lists

*_8xx_ denotes several color temperatures available. KT-LED48HID-V-E26-840-S not availabe in 5000K.

840	800 Series, 4000K	850	800 Series, 5000K

5 YEAR WARRANTY

NEW! BACK-LIT PANELS

DLC

FEATURES AND BENEFITS
- **Coming soon! Available Q2 2020**
- New back-lit style design; fits standard T-grid ceilings
- Suitable for recessed or surface mount (with optional accessories)
- Construction features precise optical lenses over each individual LED, offering optimal light diffusion and consistent surface illumination, with no risk of yellowing over product lifetime
- Powered by Keystone 0-10V dimmabe LED driver with built-in junction box
- Compatible with Keystone SmartSafe LED emergency back-up (available for quick install)
- Over 50% energy savings compared to traditional fluorescent troffers
- Suitable for dry and damp locations
- Operating temperature range: -20ºC/-4ºF to 40ºC/104ºF
- DLC Premium panels feature a unique micro-prismatic lens texture for enhanced appearance and low glare performance: UGR < 19

QUICK INSTALL ACCESSORIES AVAILABLE
see page 53 for details

0-10V DIMMING BACK-LIT PANEL LIGHTS

Catalog Number	Power	Lumens	Efficacy	CRI	Input Voltage	Dimmable	Lifetime	Warranty	DLC Category
2'x2' LED PANEL LIGHTS									
KT-BPLED30-22-8xx-VDIM	30W	3,300	110 lm/W	>80	120-277V	Yes	50,000 Hours	5 Years	Standard
KT-BPLED40-22-8xx-VDIM	40W	4,400	110 lm/W	>80	120-277V	Yes	50,000 Hours	5 Years	Standard
2'x4' LED PANEL LIGHTS									
KT-BPLED40-24-8xx-VDIM	40W	4,400	110 lm/W	>80	120-277V	Yes	50,000 Hours	5 Years	Standard
KT-BPLED50-24-8xx-VDIM	50W	5,500	110 lm/W	>80	120-277V	Yes	50,000 Hours	5 Years	Standard
1'x4' LED PANEL LIGHTS									
KT-BPLED40-14-8xx-VDIM	40W	4,400	110 lm/W	>80	120-277V	Yes	50,000 Hours	5 Years	Standard

DLC PREMIUM BACK-LIT PANEL LIGHTS

Catalog Number	Power	Lumens	Efficacy	CRI	Input Voltage	Dimmable	Lifetime	Warranty	DLC Category
2'x2' LED PANEL LIGHTS									
KT-BPLED20-22-8xx-VDIM-P	20W	2,500	125 lm/W	>80	120-277V	Yes	50,000 Hours	5 Years	Premium
KT-BPLED30-22-8xx-VDIM-P	30W	3,750	125 lm/W	>80	120-277V	Yes	50,000 Hours	5 Years	Premium
2'x4' LED PANEL LIGHTS									
KT-BPLED30-24-8xx-VDIM-P	30W	3,750	125 lm/W	>80	120-277V	Yes	50,000 Hours	5 Years	Premium
KT-BPLED40-24-8xx-VDIM-P	40W	5,000	125 lm/W	>80	120-277V	Yes	50,000 Hours	5 Years	Premium
1'x4' LED PANEL LIGHTS									
KT-BPLED30-14-8xx-VDIM-P	30W	5,000	125 lm/W	>80	120-277V	Yes	50,000 Hours	5 Years	Premium

8xx denotes several color temperatures available:					
835	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

The next generation of panel lights.
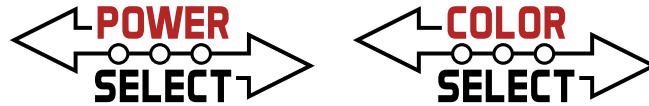
Keystone's new back-lit panel lights offer enhanced versatility and efficiency with our innovative Power Select and Color Select features. These features allow the lumen output and color temperature to be selected with a simple switch. This increased flexibility offers significant SKU reduction. The chart below lists the back-lit panels equipped with these innovative features.

POWER SELECT AND COLOR SELECT BACK-LIT PANEL LIGHTS

Catalog Number	Selectable Wattage*	Nominal Lumens	Nominal Efficacy	Selectable Color Temperature**	CRI	Input Voltage	Dimmable	Lifetime	Warranty	DLC Category
2'x2' LED PANEL LIGHTS										
KT-BPLED40PS-22-8CSA-VDIM	20W	2,100	110 lm/W	3500K / 4000K / 5000K	>80	120-277V	Yes	50,000 Hours	5 Years	Standard
	30W	3,150		3500K / 4000K / 5000K						
	40W	4,200		3500K / 4000K / 5000K						
2'x4' LED PANEL LIGHTS										
KT-BPLED50PS-24-8CSA-VDIM	30W	3,150	110 lm/W	3500K / 4000K / 5000K	>80	120-277V	Yes	50,000 Hours	5 Years	Standard
	40W	4,200		3500K / 4000K / 5000K						
	50W	5,250		3500K / 4000K / 5000K						
1'x4' LED PANEL LIGHTS										
KT-BPLED40PS-14-8CSA-VDIM	20W	2,100	110 lm/W	3500K / 4000K / 5000K	>80	120-277V	Yes	50,000 Hours	5 Years	Standard
	30W	3,150		3500K / 4000K / 5000K						
	40W	4,200		3500K / 4000K / 5000K						

*Wattage default setting is highest value **Color temperature default setting is highest value (5000K)

BACK-LIT PANEL FEATURES

BACK EXTERIOR VIEW

INTERIOR VIEW

OPTICAL LENSES OVER INDIVIDUAL LEDS
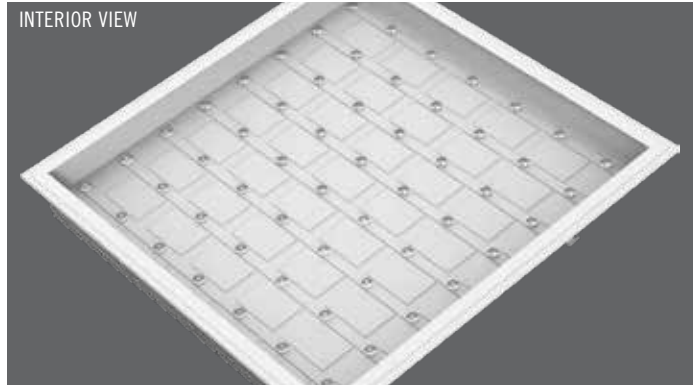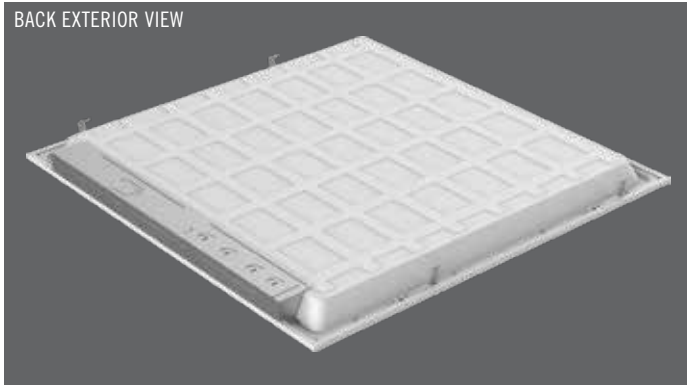
SMART SAFE LED EMERGENCY
BACK-UP for Back-Lit Panel Lights*

		INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			
Catalog Number	Wire Type	Input Voltage	Power Factor	Max. Current	Output Power	Rated Output Current	Output Voltage	LED Module Included
KT-EMRG-LED-5-500-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc	No
KT-EMRG-LED-12-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc	No

Available for factory installation

FIXTURE ACCESSORIES FOR BACK-LIT PANELS (SOLD SEPARATELY)

Catalog Number	Description
KT-BPLED-EM-22/4-KIT	Mounting bracket for SmartSafe LED emergency back-up for 2x2 and 2x4 back-lit panels
KT-BPLED-EM-14-KIT	Mounting bracket for SmartSafe LED emergency back-up for 1x4 back-lit panels
KT-BPLED-SM-14-KIT	Surface mount kit 1x4 back-lit panels
KT-BPLED-SM-22-KIT	Surface mount kit 2x2 back-lit panels
KT-BPLED-SM-24-KIT	Surface mount kit 2x4 back-lit panels
KT-BPLED-JBOX-1	Larger J-box add-on for back-lit DLC Standard panels
KT-BPLED-JBOX-2	Larger J-box add-on for back-lit DLC Premium and Power/Color Select panels

EDGE-LIT PANELS

FEATURES AND BENEFITS

- Low profile architectural grade design; fits standard T-grid ceilings
- Suitable for surface or suspension mount with optional accessories
- High quality light guide plate offers optimal light diffusion with no risk of yellowing over product lifetime
- Powered by Keystone dimmable LED driver with built-in junction box
- Compatible with Keystone SmartSafe LED emergency back-up (available for quick install)
- Over 50% energy savings compared to traditional fluorescent troffers
- LED color binning within 4 SDCM ensures exceptional color consistency between all panels
- Operating temperature range: -20ºC/-4ºF to 40ºC/104ºF
- Suitable for damp locations

QUICK INSTALL ACCESSORIES AVAILABLE
see page 53 for details

TRIAC/LINE VOLTAGE DIMMING EDGE-LIT PANEL LIGHTS

Catalog Number	Power	Lumens	Efficacy	CRI	Input Voltage	Dimmable	Lifetime	Warranty	DLC Category
2'x2' LED PANEL LIGHTS									
KT-PLED20-22-8xx-FDIM-P	20W	2,600	130 lm/W	>82	120V	Yes	50,000 Hours	5 Years	Premium
2'x4' LED PANEL LIGHTS									
KT-PLED30-24-8xx-FDIM-P	30W	3,850	128 lm/W	>82	120V	Yes	50,000 Hours	5 Years	Premium

*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K

WIRING DIAGRAM FOR TRIAC/LINE VOLTAGE DIMMING EDGE-LIT PANEL LIGHTS
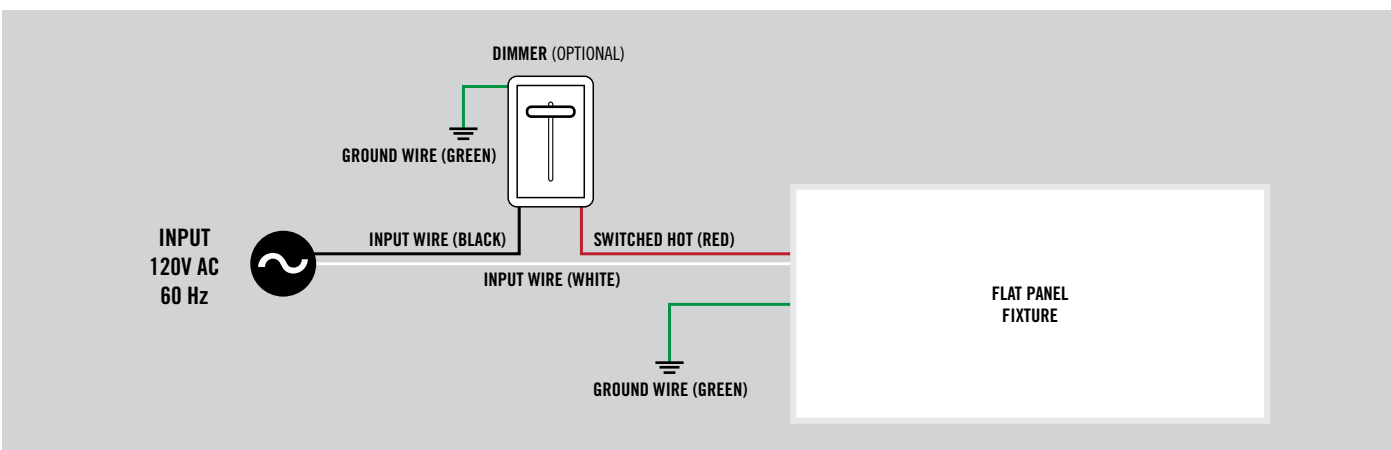
0-10V DIMMING EDGE-LIT PANEL LIGHTS

Catalog Number	Power	Lumens	Efficacy	CRI	Input Voltage	Dimmable	Lifetime	Warranty	DLC Category
2'x2' LED PANEL LIGHTS									
KT-PLED20-22-8xx-VDIM-P	20W	2,600	130 lm/W	82	120-277V	Yes	60,000 Hours	7 Years	Premium
KT-PLED30-22-8xx-VDIM-P	30W	3,900	130 lm/W	82	120-277V	Yes	60,000 Hours	7 Years	Premium
KT-PLED40-22-8xx-VDIM*	40W	4,150	104 lm/W	82	120-277V	Yes	50,000 Hours	5 Years	Standard
2'x4' LED PANEL LIGHTS									
KT-PLED30-24-8xx-VDIM-P	30W	3,900	130 lm/W	82	120-277V	Yes	60,000 Hours	7 Years	Premium
KT-PLED40-24-8xx-VDIM*	40W	4,200	105 lm/W	82	120-277V	Yes	50,000 Hours	5 Years	Standard
KT-PLED40-24-8xx-VDIM-P	40W	5,100	128 lm/W	82	120-277V	Yes	60,000 Hours	7 Years	Premium
KT-PLED50-24-8xx-VDIM*	50W	5,300	106 lm/W	82	120-277V	Yes	50,000 Hours	5 Years	Standard
1'x4' LED PANEL LIGHTS									
KT-PLED40-14-8xx-VDIM-P	40W	5,050	126 lm/W	82	120-277V	Yes	60,000 Hours	7 Years	Premium
KT-PLED40-14-8xx-VDIM*	40W	4,150	104 lm/W	82	120-277V	Yes	50,000 Hours	5 Years	Standard

*8xx denotes several color temperatures available:					
835	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

SMART SAFE LED EMERGENCY
BACK-UP for Edge-Lit Panel Lights*

Catalog Number	Wire Type	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
		Input Voltage	Power Factor	Max. Current	Output Power	Rated Output Current	Output Voltage	
KT-EMRG-LED-5-500-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc	No
KT-EMRG-LED-12-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc	No

*Available for factory installation

FIXTURE ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
KT-PLED-CABLE-KIT	Cable hanging kit for LED panel lights (includes 3 cable sets)
KT-PLED-SM-22-KIT	Surface mount kit for (1) 2x2 edge-lit panel light
KT-PLED-SM-14-KIT	Surface mount kit for (1) 1x4 edge-lit panel light
KT-PLED-SM-24-KIT	Surface mount kit for (1) 2x4 edge-lit panel light
KT-PLED-EM-BR-KIT	Mounting bracket designed for use with SmartSafe LED emergency back-up KT-EMRG-LED-5-500-EN /DF and KT-EMRG-LED-12-1200-EN /DF

CABLE HANGING KIT

SURFACE MOUNT KIT

MOUNTING BRACKET WITH SmartSafe LED EMERGENCY BACK-UP

5 YEAR WARRANTY **100,000 HOUR LIFETIME**

LINEAR HIGH BAYS

DLC QPL LISTED PREMIUM

FEATURES AND BENEFITS

- Architectural grade compact design
- Powered by Keystone 0-10V dimming LED drivers
- Frosted lens eliminates glare
- V-hook and chain mounting accessories included
- 0-10V dimming, 10% minimum
- Compatible with Keystone SmartSafe LED emergency back-up (available for quick install)
- Compatible with Keystone 480-277V step-down transformers (available for quick install)
- Compatible with Keystone occupancy sensors (available for quick install)
- Cord sets available for quick install
- Ambient operating temperature: -20°C/-4°F to 50°C/122°F
- UL Listed 1598: Suitable for dry and damp locations
- THD: <20%; power factor > 0.95
- LED chip lifetime, L70 >100,000 hours @ 25°C/77°F ambient fixture temperature

QUICK INSTALL ACCESSORIES AVAILABLE see page 53 for details

Catalog Number	CRI	Input Voltage	Wattage	Lumen Output	Efficacy	DLC Category
2' LINEAR HIGH BAY FIXTURES						
KT-HBLED90-2F-8xx-VDIM-P	>82	120-277V	90W	11,800	131 lm/W	Premium
KT-HBLED105-2F-8xx-VDIM-P	>82	120-277V	105W	13,650	130 lm/W	Premium
KT-HBLED135-2F-8xx-VDIM-P	>82	120-277V	135W	17,700	131 lm/W	Premium
KT-HBLED175-2F-8xx-VDIM-P	>82	120-277V	175W	23,100	132 lm/W	Premium
KT-HBLED215-2F-8xx-VDIM-P	>82	120-277V	215W	28,160	131 lm/W	Premium
4' LINEAR HIGH BAY FIXTURES						
KT-HBLED320-4F-8xx-VDIM-P	>82	120-277V	320W	42,000	131 lm/W	Premium

8xx denotes several color temperatures available:			
840	800 Series, 4000K	**850**	800 Series, 5000K

The following sensors, SmartSafe LED emergency back-up, step-down tranformers, and fixture accessories are available for quick factory installation on our high bay fixtures. Contact Keystone for details.

OCCUPANCY SENSOR for Linear High Bay

Catalog Number	Frequency	Description
HBE-PIR-120/277/347	50/60Hz	Passive infrared (PIR) sensing technology with adjustable controls for time delay and day lighting
KTS-PIR2-UV-KO	50/60Hz	Passive infrared (PIR) sensing technology with adjustable controls for time delay and day lighting, standby dimming levels

SMART SAFE LED EMERGENCY
BACK-UP for Linear High Bay

Catalog Number	Wire Type	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
		Input Voltage	Power Factor	Max. Current	Output Power	Rated Output Current	Output Voltage	
KT-EMRG-LED-5-500-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc	No
KT-EMRG-LED-12-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc	No
KT-EMRG-LED-20SD-2000-EN /DF	Dual Flex Cable	120-277Vac	>0.9	0.060A @ 120V	20W	1000mA-333mA	20~60Vdc	No

STEP-DOWN TRANSFORMER for Linear High Bay

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			Description	Additional Approvals
	Input Voltage	Input Current at Max. Load	Input Current at No Load	Output Voltage	Max. Load	Max Output Current		
KTAT-250-480-277 /SF	480V	0.57A	0.16A	277V	250VA	0.90A	Fully enclosed, single flex	UL LISTED
	347V	0.57A	0.11A	200V	180VA	0.90A		
KTAT-375-480-277 /SF	480V	0.86A	0.21A	277V	375VA	1.35A	Fully enclosed, single flex	
	347V	0.86A	0.11A	200V	270VA	1.35A		

FIXTURE ACCESSORIES (SOLD SEPARATELY)

	Catalog Number	Description
Cords	KT-CS-515P-6-18/3	Cord set for LED high bay fixtures; 125V NEMA 5-15P; straight blade plug; 6' SJTOW cable; 18/3 wire
	KT-CS-L515P-10-16/3	Cord set for LED high bay fixtures; 125V NEMA L5-15P; twist lock plug; 10' SJTOW cable; 16/3 wire
	KT-CS-L515P-6-16/3	Cord set for LED high bay fixtures; 125V NEMA L5-15P; twist lock plug; 6' SJTOW cable; 16/3 wire
	KT-CS-L615P-10-16/3	Cord set for LED high bay fixtures; 250V NEMA L6-15P; twist lock plug; 10' SJTOW cable; 16/3 wire
	KT-CS-L715P-10-16/3	Cord set for LED high bay fixtures; 277V NEMA L7-15P; twist lock plug; 10' SJTOW cable; 16/3 wire
	KT-CS-L715P-6-16/3	Cord set for LED high bay fixtures; 277V NEMA L7-15P; twist lock plug; 6' SJTOW cable; 16/3 wire
	KT-CS-NP-10-16/3	Cord for LED high bay fixtures; no plug; inners 1/2" strip on both ends; 10' SJTOW cable; 16/3 wire
	KT-CS-NP-15-16/3	Cord for LED high bay fixtures; no plug; inners 1/2" strip on both ends; 15' SJTOW cable; 16/3 wire
	KT-CS-NP-6-16/3	Cord for LED high bay fixtures; no plug; inners 1/2" strip on both ends; 6' SJTOW cable; 16/3 wire
Mounting Kits	KT-HBLED-CABLE-KIT	Cable mount kit for LED high bay fixtures; fits all Keystone 2F high bay fixtures
	KT-HBLED-EM-BR-KIT	Mounting bracket designed for use with SmartSafe LED emergency back-up KT-EMRG-LED-5-500-EN /DF, KT-EMRG-LED-12-1200-EN /DF, and KT-EMRG-LED-20SD-2000-EN /DF
	KT-HBLED-PM-1-KIT	Pendant mount kit for LED high bay fixtures; fits all Keystone 2F high bay fixtures
	KT-HBLED-SM-1-KIT	Surface mount kit for LED high bay fixtures; fits all Keystone 2F high bay fixtures
	KT-HBLED-WG-1-KIT	Wire guard for LED high bay fixtures; fits 90W, 105W, 135W, and 175W Keystone 2F high bay fixtures
	KT-HBLED-WG-2-KIT	Wire guard for LED high bay fixtures; fits 215W Keystone 2F high bay fixtures
	KT-HBLED-WG-3-KIT	Wire guard for LED high bay fixtures; fits 320W Keystone 4F high bay fixtures

OCCUPANCY SENSOR (HBE-PIR-120/277/347)

MOUNTING BRACKET WITH SmartSafe LED EMERGENCY BACK-UP

STEP-DOWN TRANSFORMER (KTAT-250-480-277 /SF)

CORD SETS

CABLE HANGING KIT

PENDANT MOUNT KIT

SURFACE MOUNT KIT

WIRE GUARD

c(UL)us LISTED · **5 YEAR** WARRANTY

DLC QPL LISTED PREMIUM
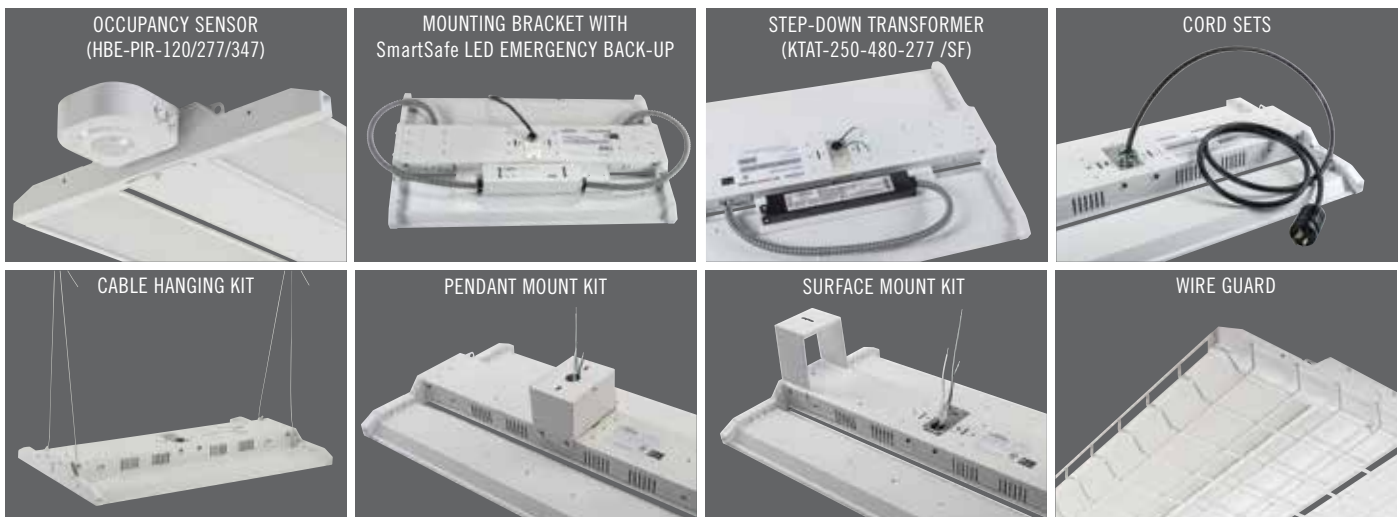
ROUND HIGH BAYS

FEATURES AND BENEFITS

- IP65 rated, wet location
- Powered by Keystone 0-10V dimming LED driver
- Ambient operating temperature: -40°C/-40°F to 45°C/113°F
- LED chip lifetime, L70 >100,000 hours @ 25°C ambient fixture temperature
- Ring bolt mounting accessory included with safety hanging kit
- Compatible with Keystone occupancy sensors (available for quick install)
- 0-10V dimming, 10% minimum
- THD: <20%
- 6' cord for input and dimming wires
- Low optical flicker
- Built in 4kV surge protection

QUICK INSTALL ACCESSORIES AVAILABLE
see page 53 for details

ROUND HIGH BAY FIXTURES

Catalog Number	Diameter	Input Voltage	Wattage	Lumen Output	CRI	Power Factor	Efficacy	Beam Angle
KT-RHLED100-10C-8xx-VDIM-P	10"	120-277V	100W	13,100	>82	>0.92	131 lm/W	110°
KT-RHLED150-12C-8xx-VDIM-P	12"	120-277V	150W	20,000	>82	>0.92	133 lm/W	110°
KT-RHLED200-14C-8xx-VDIM-P	14"	120-277V	200W	26,600	>82	>0.92	133 lm/W	110°

ADDITIONAL FEATURES FOR HIGH TEMPERATURE ROUND HIGH BAY FIXTURES

- Ambient operating temperature: -40°C/-40°F to 65°C/149°F
- Unique driver housing with heat sink fins added for greater heat dissipation

HIGH TEMPERATURE ROUND HIGH BAY FIXTURES

Catalog Number	Diameter	Input Voltage	Wattage	Lumen Output	CRI	Power Factor	Efficacy	Beam Angle
NEW! KT-RHLED135HT-14C-8xx-VDIM-P	14"	120-277	135W	20,200	>82	>0.92	150 lm/W	110°

8xx denotes several color temperatures available:			
840	800 Series, 4000K	**850**	800 Series, 5000K

INSTALLATION

Our XFit round high bay fixtures are simple and fast to install. The primary mounting method mimics that of legacy HID downlight style high bay fixtures, making them ideal for retrofits or new installations. Pendant mount kits and surface mount kits provide flexibility in mounting options for these fixtures.

ACCESSORIES (SOLD SEPARATELY)

	Catalog Number	Description
Mounting Kits	KT-RHLED-JBOX-PM	J-box optimized for pole pendant application
	KT-RHLED-SM-1-KIT	Surface mount kit for 100W round high bay fixtures
	KT-RHLED-SM-2-KIT	Surface mount kit for 150W round high bay fixtures
	KT-RHLED-SM-3-KIT	Surface mount kit for 200W round high bay fixtures and 135W high temperature round high bay fixtures
Wire Guards	KT-RHLED-WG-1-KIT	Wire guard for 100W round high bay fixtures
	KT-RHLED-WG-2-KIT	Wire guard for 150W round high bay fixtures
	KT-RHLED-WG-3-KIT	Wire guard for 200W round high bay fixtures and 135W high temperature round high bay fixtures
Reflectors	KT-RHLED-AR90-1	Aluminum dome reflector for 100W round high bay fixtures; 90° beam angle
	KT-RHLED-AR90-2	Aluminum dome reflector for 150W round high bay fixtures; 90° beam angle
	KT-RHLED-AR90-3	Aluminum dome reflector for 200W round high bay fixtures and 135W high temperature round high bay fixtures; 90° beam angle
Sensors	KTS-MW2-12V-WL /A	Microwave occupancy sensor with preset standby time of 3 minutes at 30% dimming; settings can be customized at the factory upon request
	KTS-MW2-12V-WL /B	Microwave occupancy sensor with preset standby time of 10 minutes at 10% dimming; settings can be customized at the factory upon request
	KTS-MW2-REMOTECONTROL	Remote control for microwave occupancy sensors

J-BOX FOR PENDANT MOUNT

SURFACE MOUNT KIT

WIRE GUARD

REFLECTOR

MICROWAVE SENSOR

ETL Intertek · c UL us LISTED · 5 YEAR WARRANTY

DLC QPL LISTED PREMIUM

WASHDOWN HIGH BAYS

FEATURES AND BENEFITS

- **IP69K rated: Wet location for high pressure cleaning**
- **ETL Sanitation listed: NSF/ANSI standard 2 food equipment (splash zone and non-food zone)**
- Powered by Keystone 0-10V dimming LED driver
- Ambient operating temperature: -40°C/-40°F to 40°C/104°F
- LED chip lifetime, L70 >100,000 hours @ 25°C ambient fixture temperature
- Ring bolt mounting accessory included
- 0-10V dimming, 10% minimum
- THD: <20%
- 6' cord for input and dimming wires
- Built-in 4kV surge protection

Catalog Number	Diameter	Input Voltage	Wattage	Lumen Output	CRI	Power Factor	Efficacy	Beam Angle
KT-RWDLED150-17C-8xx-VDIM-P	17"	120-277V	150W	19,800	>82	>0.92	132 lm/W	90°

*8xx denotes several color temperatures available:				
840	800 Series, 4000K	**850**	800 Series, 5000K	

5 YEAR WARRANTY 100,000 HOUR LIFETIME

VAPOR TIGHTS

DLC QPL LISTED PREMIUM

FEATURES AND BENEFITS

- Traditional narrow design, suitable for rugged, demanding applications
- Powered by Keystone 0-10V dimming drivers (0-10V dimming, 10% minimum)
- 4' and 8' vapor tight fixtures are compatible with Keystone SmartSafe LED emergency back-up (available for quick install)
- IP65 Rated, suitable for wet locations
- Smooth diffused lens for even appearance; stainless steel lens clips
- Ambient temperature: -20ºC/-4ºF to 50ºC/122ºF
- UL Listed 1598: suitable for dry and damp locations
- Power factor: >0.95; THD: <20%
- LED chip lifetime, L70>100,000 hours @ 25ºC/77ºF ambient fixture temperature
- Includes mounting hardware

QUICK INSTALL
ACCESSORIES
AVAILABLE
see page 53
for details

Catalog Number	CRI	Input Voltage	Wattage	Lumen Output	Efficacy	DLC Category
2' VAPOR TIGHT FIXTURES						
KT-VTLED19-2A-8xx-VDIM-P	>82	120-277V	19W	2,470	130 lm/W	Premium
4' VAPOR TIGHT FIXTURES						
KT-VTLED18-4A-8xx-VDIM-P	>82	120-277V	18W	2,340	130 lm/W	Premium
KT-VTLED28-4A-8xx-VDIM-P	>82	120-277V	28W	3,670	131 lm/W	Premium
KT-VTLED44-4A-8xx-VDIM-P	>82	120-277V	44W	5,720	130 lm/W	Premium
KT-VTLED63-4A-8xx-VDIM-P	>82	120-277V	63W	8,065	128 lm/W	Premium
8' VAPOR TIGHT FIXTURES						
KT-VTLED54-8A-8xx-VDIM-P	>82	120-277V	54W	7,020	130 lm/W	Premium
KT-VTLED90-8A-8xx-VDIM-P	>82	120-277V	90W	11,610	129 lm/W	Premium

*8xx denotes several color temperatures available:

840	800 Series, 4000K	850	800 Series, 5000K

ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
KT-VTLED-TPSCREW-KIT	Screw kit for tamper-proofing vapor tight fixture (bag of 14)
KT-VTLED-45SM-1-KIT	45º angle surface mount kit

WRAPS

FEATURES AND BENEFITS

- Powered by Keystone 0-10V dimming LED drivers
- Standard wrap fixture has a prismatic style lens, curved wrap fixture has a frosted lens
- 0-10V dimming, 10% minimum
- Compatible with Keystone SmartSafe LED emergency back-up (available for quick install)
- Compatible with Keystone 480-277V step-down transformers
- Compatible with Keystone occupancy sensors (available for quick install)
- Ambient operating temperature: -20ºC/-4ºF to 50ºC/122ºF
- UL Listed 1598: Suitable for dry and damp locations
- Power factor > 0.95; THD: <20%
- LED chip lifetime, L70 >100,000 hours @ 25ºC/77ºF ambient fixture temperature

QUICK INSTALL
ACCESSORIES
AVAILABLE
see page 53
for details

Keystone Catalog Number	Nominal Length	CRI	Input Voltage	Wattage	Lumen Output	Efficacy	DLC Category
STANDARD WRAP FIXTURES							
KT-WLED33-4-8xx-VDIM-P	4'	>82	120-277V	33W	4,290	130 lm/W	Premium
CURVED WRAP FIXTURES							
KT-CWLED40-4-8xx-VDIM-P	4'	>82	120-277V	40W	5,200	130 lm/W	Premium

8xx denotes several color temperatures available:					
835	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

STANDARD WRAP FIXTURE

CURVED WRAP FIXTURE

5 YEAR WARRANTY   **100,000 HOUR** LIFETIME

MICRO STRIPS

DLC PREMIUM

FEATURES AND BENEFITS

- Powered by Keystone 0-10V dimming LED drivers
- Smooth diffused lens for an even appearance
- 0-10V dimming, 10% minimum
- Compatible with Keystone SmartSafe LED emergency back-up (available for quick install)
- Compatible with Keystone 480-277V step-down transformers (remote mount only)
- Compatible with Keystone occupancy sensors (available for quick install)
- Ambient operating temperature: -20ºC/-4ºF to 50ºC/122ºF
- UL Listed 1598: Suitable for dry and damp locations
- Power factor > 0.95; THD: <20%
- LED chip lifetime, L70 >100,000 hours @ 25ºC/77ºF ambient fixture temperature

QUICK INSTALL ACCESSORIES AVAILABLE
see page 53 for details

Fluorescent Equivalent	Keystone Catalog Number	CRI	Input Voltage	Wattage	Lumen Output	Efficacy	DLC Category
2' MICRO STRIP FIXTURES							
2xF17T8	KT-MSLED19-2-8xx-VDIM-P	>82	120-277V	19W	2,508	132 lm/W	Premium
4' MICRO STRIP FIXTURES							
1xF32T8	KT-MSLED18-4-8xx-VDIM-P	>82	120-277V	18W	2,340	130 lm/W	Premium
2xF32T8	KT-MSLED28-4-8xx-VDIM-P	>82	120-277V	28W	3,696	132 lm/W	Premium
2xF49T5HO / F54T5HO	KT-MSLED44-4-8xx-VDIM-P	>82	120-277V	44W	5,764	131 lm/W	Premium
8' MICRO STRIP FIXTURES							
4xF32T8	KT-MSLED54-8-8xx-VDIM-P	>82	120-277V	54W	7,210	134 lm/W	Premium

8xx denotes several color temperatures available:					
835	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

Included Accessories: Mounting brackets, hardware, and junction box decorative cover

ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
HBE-PIR-120/277/347	Passive infrared (PIR) sensing technology with adjustable controls for time delay and day lighting
KT-MSLED-VH-KIT	V-hook and chain mounting kit
KT-MSLED-LSM-KIT	End-to-end linking mounting kit

5 YEAR WARRANTY **100,000 HOUR** LIFETIME

CENTER BASKET TROFFERS

DLC QPL PREMIUM LISTED

FEATURES AND BENEFITS

- Architectural grade center basket volumetric design
- Powered by Keystone 0-10V dimming drivers
- Smooth diffused lens for even appearance
- 0-10V dimming, 10% minimum
- Compatible with Keystone SmartSafe LED emergency back-up (available for quick install)
- Ambient temperature: -20ºC/-4ºF to 50ºC/122ºF
- UL Listed 1598: suitable for dry and damp locations
- Power factor > 0.95; THD: <20%
- LED chip lifetime: L70>100,000 hours @ 25ºC/77ºF ambient fixture temperature
- Low optical flicker
- Large access plate on back side of fixture for easy installation and servicing

QUICK INSTALL ACCESSORIES AVAILABLE
see page 53 for details

Catalog Number	CRI	Input Voltage	Wattage	Lumen Output	Efficacy	DLC Category
2'x2' FIXTURES						
KT-CBLED18-22A-8xx-VDIM-P	>82	120-277V	18W	2,300	128 lm/W	Premium
KT-CBLED24-22A-8xx-VDIM-P	>82	120-277V	24W	3,050	127 lm/W	Premium
2'x4' FIXTURES						
KT-CBLED24-24A-8xx-VDIM-P	>82	120-277V	24W	3,050	127 lm/W	Premium
KT-CBLED30-24A-8xx-VDIM-P	>82	120-277V	30W	3,870	129 lm/W	Premium
KT-CBLED38-24A-8xx-VDIM-P	>82	120-277V	38W	4,825	127 lm/W	Premium
KT-CBLED45-24A-8xx-VDIM-P	>82	120-277V	45W	5,760	128 lm/W	Premium
1'x4' FIXTURES						
KT-CBLED34-14A-8xx-VDIM-P	>82	120-277V	34W	4,390	129 lm/W	Premium

*8xx denotes several color temperatures available:

835	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
KT-CBLED-SM-14-KIT	Surface mount kit for 1x4 LED center basket troffers
KT-CBLED-SM-22-KIT	Surface mount kit for 2x2 LED center basket troffers
KT-CBLED-SM-24-KIT	Surface mount kit for 2x4 LED center basket troffers

RoHS Compliant | 5YEAR WARRANTY | 50,000 HOUR LIFETIME

ARMOR LIGHT

FEATURES AND BENEFITS

- **50,000 hour lifetime**
- **Frosted lens to reduce glare**
- **Includes a 3' cord and clip for maximum versatility when hanging the fixture**
- **/G2 items are linkable**
- Omni-directional light distribution
- 6kV surge protection
- Strong, durable, lightweight construction suitable for construction areas, outdoor activity lighting
- Isolated driver for better heat dissipation
- Driver with heat sink silicone is waterproof, dust-proof, and anti-mosquito
- Operating temperature: -40ºC/-40ºF to 60ºC/140ºF

Catalog Number	Power Consumption	CRI	Input Voltage	Color Temperature	Total Lumens	Efficacy	IP Rating	Metal Halide HID Equivalent
KT-TFLED60-850	60W	≥80	120V	5000K	7,000	117 lm/W	IP64	175W
KT-TFLED100-850 /G2	100W	≥80	120V	5000K	11,500	115 lm/W	IP64	400W

SHOP LIGHTS

FEATURES AND BENEFITS

- Linkable
- Ideal for indoor applications in place of fluorescent shop lights, surface-mount, and/or strip fixtures
- Installs in minutes (mounting hardware included)
- 60" power cord
- 48" white plastic body with metal backing
- Fully assembled

Catalog Number	Nominal Length	Input Voltage	Power Consumption	Color Temperature	Lumen Output	CRI
KT-SHLED23-48-840	4'	120V	23W	4000K	2,600	>80
KT-SHLED40-48-840 /G2	4'	120V	40W	4000K	4,200	>80

QUICK INSTALL ACCESSORIES

Keystone offers a variety of accessories that can be factory installed on our XFit LED fixtures.

DUAL TECHNOLOGY HIGH BAY OCCUPANCY SENSORS

Available Fixtures	Product Description	Catalog Number	Description
Linear High Bays, Micro Strips, Wraps	Occupancy Sensors	HBE-PIR-120/277/347	Passive infrared (PIR) sensing technology with adjustable controls for time delay and day lighting; 50/60Hz frequency
		KTS-PIR2-UV-KO	Passive infrared occupancy sensor with knock-out mounting

MICROWAVE SENSORS

Available Fixtures	Product Description	Catalog Number	Description
Round High Bays	Microwave Sensors	KTS-MW2-12V-WL /A	Microwave occupancy sensor with preset standby time of 3 minutes at 30% dimming; settings can be customized at the factory upon request
		KTS-MW2-12V-WL /B	Microwave occupancy sensor with preset standby time of 10 minutes at 10% dimming; settings can be customized at the factory upon request

480-277V STEP-DOWN TRANSFORMERS

Available Fixtures	Catalog Number	Description
2' Linear High Bays	KTAT-250-480-277 /SF	Fully enclosed, single-flex step down transformer
4' Linear High Bays	KTAT-375-480-277 /SF	Fully enclosed, single-flex step down transformer

SMART SAFE LED EMERGENCY BACK-UP

Available Fixtures	Catalog Number	Description
Linear High Bays, Panel Lights	KT-EMRG-LED-5-500-EN /DF	5W, 500 lumen fully enclosed LED emergency back-up with dual flex cable
	KT-EMRG-LED-12-1200-EN /DF	12W, 1200 lumen fully enclosed LED emergency back-up with dual flex cable
Linear High Bays	KT-EMRG-LED-20SD-2000-EN /DF	20W, 2000 lumen self-diagnostic fully enclosed LED emergency back-up with dual flex cable
Vapor Tight (4' and 8' only)	KT-EMRG-LED-5C-500	California Compliant 5W, 500 lumen LED emergency battery back-up; includes LED driver and battery
	KT-EMRG-LED-12C-1200	California Compliant 12W, 1200 lumen LED emergency battery back-up; includes LED driver and battery
Wraps, Center Basket Troffers	KT-EMRG-LED-5-500 /A	5W, 500 lumen SmartSafe emergency battery backup; includes LED driver and battery
	KT-EMRG-LED-12-1200 /A	12W, 1200 lumen SmartSafe emergency battery backup; includes LED driver and battery
Micro Strips, Wraps	KT-EMRG-LED-5-500 /NB	5W, 500 lumen SmartSafe emergency battery backup; includes LED driver and narrow battery
	KT-EMRG-LED-12-1200 /NB	12W, 1200 lumen SmartSafe emergency battery backup; includes LED driver and narrow battery

CORD SETS

Available Fixtures	Catalog Number	Description
Linear High Bays	KT-CS-515P-6-18/3	Cord set for LED high bay fixtures; 125V NEMA 5-15P; straight blade plug; 6' SJTOW cable; 18/3 wire
	KT-CS-L515P-10-16/3	Cord set for LED high bay fixtures; 125V NEMA L5-15P; twist lock plug; 10' SJTOW cable; 16/3 wire
	KT-CS-L515P-6-16/3	Cord set for LED high bay fixtures; 125V NEMA L5-15P; twist lock plug; 6' SJTOW cable; 16/3 wire
	KT-CS-L615P-10-16/3	Cord set for LED high bay fixtures; 250V NEMA L6-15P; twist lock plug; 10' SJTOW cable; 16/3 wire
	KT-CS-L715P-6-16/3	Cord set for LED high bay fixtures; 277V NEMA L7-15P; twist lock plug; 6' SJTOW cable; 16/3 wire
	KT-CS-L715P-10-16/3	Cord set for LED high bay fixtures; 277V NEMA L7-15P; twist lock plug; 10' SJTOW cable; 16/3 wire
	KT-CS-NP-6-16/3	Cord for LED high bay fixtures; no plug; inners 1/2" strip on both ends; 6' SJTOW cable; 16/3 wire
	KT-CS-NP-10-16/3	Cord for LED high bay fixtures; no plug; inners 1/2" strip on both ends; 10' SJTOW cable; 16/3 wire
	KT-CS-NP-15-16/3	Cord for LED high bay fixtures; no plug; inners 1/2" strip on both ends; 15' SJTOW cable; 16/3 wire

AC LED EMERGENCY BACK-UP
FOR TYPE B LED TUBES

Optimized for Keystone single-ended DirectDrive LED tubes and 10.5W and 18.5W G2 Direct-Drive DX2 tubes

SHOWN INSTALLED IN A WRAP FIXTURE

AC LED EMERGENCY BACK-UP
FOR RECESSED AND INTEGRATED FIXTURES

Optimized for recessed LED downlight fixtures and retrofit kits, and Keystone DirectDrive compact lamps
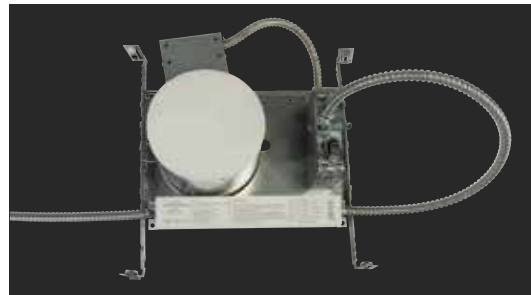
SHOWN INSTALLED IN A RECESSED FIXTURE

STANDARD LED EMERGENCY BACK-UP KIT

Enables emergency lighting solutions to be utilized in a variety of lighting fixtures including both LED and fluorescent

TEST BUTTON

LED DRIVER

BATTERY
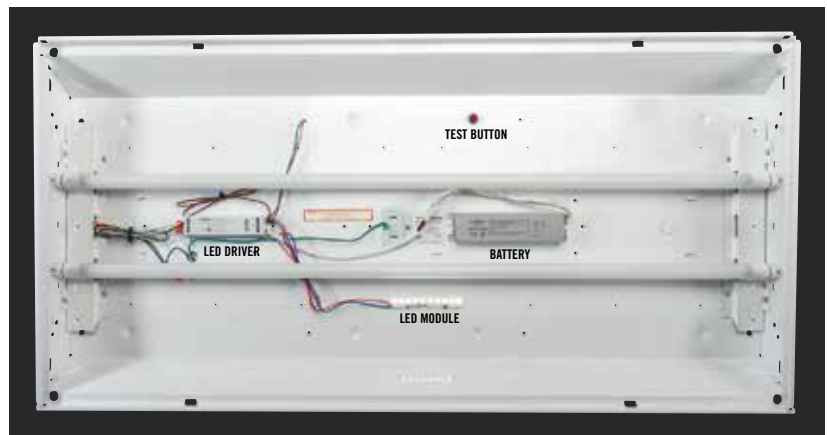
LED MODULE

SHOWN INSTALLED IN A TROFFER FIXTURE WITH THE LED MODULE PRODVIDING EMERGENCY LIGHTING BY BYPASSING THE TUBES

1 PIECE ENCLOSED LED
EMERGENCY BACK-UP

Field installable solution for use in many fixture types; can also be remote mounted
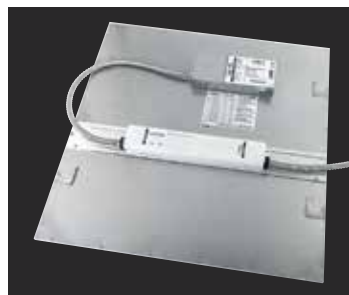
SHOWN INSTALLED IN A FLAT PANEL FIXTURE WITH MOUNTING BRACKET

SHOWN INSTALLED IN A HIGH BAY FIXTURE WITH MOUNTING BRACKET

SMART//SAFE AC
LED EMERGENCY BACK-UP

LED EMERGENCY BACK-UP FOR INTEGRATED LED PRODUCTS

Enables emergency lighting solutions to be incorporated into a variety of lighting fixtures using integrated LED lighting components where only the input wires of the LED load are accessible.

FEATURES AND BENEFITS

- Illuminates entire LED load at reduced output under emergency mode
- 2-in-1 LED test switch and indicator light provides instant reassurance that the system is working
- One-piece design with metal housing
- Evaluated to UL 924 requirements
- Reliable operation with minimum 90 minute duration

OPTIMIZED FOR TYPE B LED TUBES

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage	
KT-EMRG-LED-5-500-AC	120-277V	≥0.35	100mA @ 120V	5W	Load Dependant	40~300Vdc	No
NEW! KT-EMRG-LED-12-1200-AC	120–277V	≥0.35	100mA @120V	10–12W	Load Dependent	40~100Vdc	No

FOR USE WITH **DIRECTDRIVE LED**	**Optimized for Keystone single-ended DirectDrive LED tubes.** Also compatible with KT-LED10.5T8-48G-8xx-DX2 /G2 and KT-LED18.5-T8-48GC-8xx-DX2 /G2. Contact Keystone for details on functioning with other Type B LED tubes.

OPTIMIZED FOR RECESSED AND INTEGRATED FIXTURES

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage	
KT-EMRG-LED-5-500-AC /DF	120-277V	≥0.35	100mA @ 120V	5W	Load Dependant	40~300V	No

FOR USE WITH **RECESSED LED** **DIRECTDRIVE LED** CONNECT TO LINE VOLTAGE	**Optimized for recessed LED downlight fixtures and retrofit kits and Keystone DirectDrive compact lamps.** Contact Keystone for details on functioning with other product types.

EMERGENCY BACK-UP SOLUTIONS
2-Piece Smart Safe LED Emergency Back-Up Kits

UL LISTED | RoHS Compliant | 5YEAR WARRANTY

SMART//SAFE
LED EMERGENCY BACK-UP

FEATURES AND BENEFITS

• Short circuit overload and open load protection
• Battery pack with quick connect
• 2-in-1 LED test switch and indicator light provides instant reassurance that the system is working
• Evaluated to UL 924 requirements; UL Classified for field installation
• Reliable operation with minimum 90 minute duration

STANDARD LED EMERGENCY BACK-UP FOR LED FIXTURES
INCLUDES EMERGENCY LED DRIVER AND BATTERY
Enables emergency lighting solutions to be incorporated into a variety of new and existing LED fixtures, tying into both the existing AC driver and LED modules.

2017 NAILD Best Overall Product | EDsM CATEGORY WINNER PRODUCT 17 OF THE YEAR | 2017 NAILD Best Driver/Ballast

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage	LED Module Included
STANDARD							
KT-EMRG-LED-5-500 /A	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc	No
KT-EMRG-LED-12-1200 /A	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc	No
NARROW BATTERY							
KT-EMRG-LED-5-500 /NB	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc	No
KT-EMRG-LED-12-1200 /NB	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc	No
CALIFORNIA COMPLIANT							
KT-EMRG-LED-5C-500	120-277Vac	>0.9	0.050A @ 120V	5W	250mA-86mA	20~60Vdc	No
KT-EMRG-LED-12C-1200	120-277Vac	>0.9	0.050A @ 120V	12W	600mA-206mA	20~60Vdc	No

STANDARD LED EMERGENCY BACK-UP KITS
INCLUDES EMERGENCY LED DRIVER, BATTERY, AND LED MODULE
Enables emergency lighting solutions to be incorporated into a variety of lighting fixtures including both LED and fluorescent.

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage	LED Module Included
KT-EMRG-LED-5-500-K1	120-277Vac	≥0.5	0.030A @ 120V	5W	400mA-100mA	12~41Vdc	Yes
KT-EMRG-LED-12-1200-K1	120-277Vac	≥0.5	0.070A @ 120V	12W	1000mA-200mA	12~41Vdc	Yes
12W CALIFORNIA COMPLIANT (COMPLIES WITH CEC T20 EFFICIENCY REQUIREMENTS)							
KT-EMRG-LED-12C-1200-K1	120-277Vac	>0.9	0.050A @ 120V	12W	600mA-206mA	20~60Vdc	Yes

SMART//SAFE
LED EMERGENCY BACK-UP

1 PIECE ENCLOSED LED EMERGENCY BACK-UP FOR LED FIXTURES

Enables emergency lighting solutions to be incorporated into a variety of new and existing LED fixtures. Simply install the unit either directly into the fixture or via remote mounting, tying into both the existing AC driver and LED module(s).

FEATURES AND BENEFITS
- Adds emergency lighting capability to multiple fixture types
- Remote mounting means no interference with the sleek design of LED architectural fixtures
- 2-in-1 LED test switch and indicator light provides instant reassurance that the system is working
- Evaluated to UL 924 requirements; UL Classified for field installation
- Reliable operation with minimum 90 minute duration

Catalog Number	Wire Type	Input Voltage	Power Factor	Maximum Current	Output Power	Rated Output Current	Output Voltage
5W							
KT-EMRG-LED-5-500-EN	Standard Side Exit	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc
KT-EMRG-LED-5-500-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc
KT-EMRG-LED-5-500-EN /RJSF	Rear Junction, Single Flex	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc
12W							
KT-EMRG-LED-12-1200-EN	Standard Side Exit	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc
KT-EMRG-LED-12-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc
KT-EMRG-LED-12-1200-EN /RJSF	Rear Junction, Single Flex	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc
12W CALIFORNIA COMPLIANT (COMPLIES WITH CEC T20 EFFICIENCY REQUIREMENTS)							
KT-EMRG-LED-12C-1200-EN	Standard Side Exit	120-277Vac	≥0.5	0.051A @ 120V	12W	600mA-206mA	20~60Vdc
KT-EMRG-LED-12C-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.050A @ 120V	12W	600mA-206mA	20~60Vdc
20W SELF-DIAGNOSTIC							
KT-EMRG-LED-20SD-2000-EN /DF	Dual Flex Cable	120-277Vac	>0.9	0.060A @ 120V	20W	1000mA-333mA	20~60Vdc

5 YEAR WARRANTY **50,000 HOUR LIFETIME**

DLC | Each kit includes (1) fixture assembly body with pre-wired LED driver, (2) end plates, (2) side plates, and (4) self-tapping screws

2'x2' LED DOORFRAME RETROFIT KIT, 23W (0-10V Dimming)

Input Voltage	Catalog Number	Dimming Type	Wattage	Lumen Output	CRI	THD	Power Factor	Efficacy	Meets DLC
120-277V	KT-RKIT23-22D-8xx-VDIM	0-10V	23W	3,070	>80	<20%	>0.9	134 lm/W	Yes

2'x4' LED DOORFRAME RETROFIT KIT, 30W (0-10V Dimming)

Input Voltage	Catalog Number	Dimming Type	Wattage	Lumen Output	CRI	THD	Power Factor	Efficacy	Meets DLC
120-277V	KT-RKIT30-24D-8xx-VDIM	0-10V	30W	3,910	>80	<20%	>0.9	130 lm/W	Yes

2'x4' LED DOORFRAME RETROFIT KIT, 36W (0-10V Dimming)

Input Voltage	Catalog Number	Dimming Type	Wattage	Lumen Output	CRI	THD	Power Factor	Efficacy	Meets DLC
120-277V	KT-RKIT36-24D-8xx-VDIM	0-10V	36W	4,890	>80	<20%	>0.9	136 lm/W	Yes

	8xx denotes several color temperatures available:				
835	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

FEATURES AND BENEFITS

- Used to upgrade existing 2'x2' or 2'x4' fluorescent recessed troffer without modifying existing fixture mounting
- Architectural grade design
- Powered by a Keystone 0-10V dimming LED driver
- Compatible with Keystone SmartSafe LED emergency back-up
- Suitable for damp locations
- Operating temperature range: -20°C/-4°F to 50°C/122°F
- Over 50% energy savings as compared to traditional fluorescent troffers

BACK AND FRONT VIEWS

RETROFIT INSTALLATION INSTRUCTIONS FOR 2'x2' AND 2'x4' DOORFRAME TROFFER FIXTURES

STEP 1: Shut off power to the fixture. Open the fixture lens and remove the existing fluorescent lamps, ballast cover, and lens. Disconnect the ballast from the building's line voltage.

STEP 2: Install the support brackets (x2) and secure with tek screws. **(Optional):** Install side plates (x2). This step is dependent on whether or not there are gaps between the fixture and the existing ceiling grid.

STEP 3: Insert the doorframe of the retrofit into the keyholes of the support brackets and slide the unit into place. Connect power from building to quick disconnect on retrofit kit.

STEP 4: Swing the doorframe assembly up into the fixture frame.

STEP 5: Secure the doorframe kit by locking in the latches.

STEP 6: Restore power to the fixture.

For more information, watch the video at keystonetech.com/video

FUTURE FIT >

Strip Fixture Retrofit Kits

c UL us CLASSIFIED   5 YEAR WARRANTY   ☀ 50,000 HOUR LIFETIME

Each 8' kit includes (2) retrofit housings with pre-wired LED drivers, (3) installation brackets, (2) lenses, (1) label, and installation instructions
Each 4' kit includes (1) retrofit housing with pre-wired LED driver, (2) installation brackets, (1) lens, (1) label, and installation instructions

4' LED RETROFIT STRIP KIT (0-10V Dimming)

Input Voltage	Catalog Number	Dimming Type	Wattage	Lumen Output	CRI	THD	Power Factor	Efficacy	Meets DLC
120-277V	KT-RKIT32-4S-8xx-VDIM	0-10V	32W	4,350	>80	<20%	>0.9	136 lm/W	Yes

8' LED RETROFIT STRIP KITS (0-10V Dimming)

Input Voltage	Catalog Number	Dimming Type	Wattage	Lumen Output	CRI	THD	Power Factor	Efficacy	Meets DLC
120-277V	KT-RKIT46-8S-8xx-VDIM	0-10V	46W	6,200	>80	<20%	>0.9	134 lm/W	Yes
120-277V	KT-RKIT55-8S-8xx-VDIM	0-10V	55W	7,360	>80	<20%	>0.9	133 lm/W	Yes

*8xx denotes several color temperatures available:		
835 800 Series, 3500K	**840** 800 Series, 4000K	**850** 800 Series, 5000K

FEATURES AND BENEFITS

- Used to upgrade existing 4"-5.25" wide strip fixtures without modifying the existing fixture mounting
- Architectural grade design
- Powered by a Keystone 0-10V dimming LED driver
- Compatible with Keystone SmartSafe LED emergency back-up
- Suitable for damp locations
- Operating temperature range: -20°C/-4°F to 50°C/122°F
- 8' kits are (2) 4' channels linked together
- Over 50% energy savings as compared to traditional fluorescent strips

TYPICAL INSTALLATION APPLICATION

RETROFIT INSTALLATION INSTRUCTIONS FOR 4' AND 8' INDOOR STRIP FIXTURES

STEP 1: Shut off power to the fixture. Remove the existing fluorescent lamps and the ballast cover. Disconnect the ballast from the building's line voltage.

STEP 2: Cut the wire leads coming from the sockets and remove the sockets and socket bars on both ends of the fixture.

STEP 3: Break apart the 1-piece mounting bracket kit into 3 individual pieces. Install a small bracket at each end of the fixture and the large bracket at the center of fixture (for 8' fixtures only). Bend the brackets over the fixture to fit the exact width and fasten them to the fixture with the provided tek screws.

STEP 4: Connect power from building to quick disconnect on retrofit kit. Bring retrofit kit up to fixture frame.

STEP 5: Fasten the pans to the strip fixture with a quarter turn (provided) on each end.

STEP 6: Install the lens by gently squeezing it into the grooved edge of the pan. Restore power to the fixture.

▶ **For more information, watch the video at keystonetech.com/video**

APPROVED FOR USE IN
VAPOR TIGHT FIXTURES

RoHS Compliant **10**YEAR WARRANTY

High efficacy linear LED modules pre-mounted into aluminum extension via a patented manufacturing method
Each kit is DLC listed and includes (1) LED driver, (2) LED modules, mounting hardware, (2) optional diffused lenses, and accessories

80 CRI LINEAR KITS (0-10V Dimming)

Input Voltage	CRI	AlumaGroove Kit Catalog Number	Nominal Length	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	>80	KT-RKIT-2AG22-3000-8xx-VDIM	2'	2	22W	2,997	137 lm/W	163 lm/W
120-277V	>80	KT-RKIT-2AG22-4000-8xx-VDIM	2'	2	31W	3,989	130 lm/W	155 lm/W
120-277V	>80	KT-RKIT-2AG22-5000-8xx-VDIM	2'	2	42W	5,116	122 lm/W	145 lm/W
120-277V	>80	KT-RKIT-2AG44-4000-8xx-VDIM	4'	2	29W	4,232	144 lm/W	171 lm/W
120-277V	>80	KT-RKIT-2AG44-5000-8xx-VDIM	4'	2	36W	5,171	142 lm/W	169 lm/W
120-277V	>80	KT-RKIT-2AG44-6000-8xx-VDIM	4'	2	45W	6,221	138 lm/W	164 lm/W

*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K

90 CRI LINEAR KITS (0-10V Dimming)

Input Voltage	CRI	AlumaGroove Kit Catalog Number	Nominal Length	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	>90	KT-RKIT-2AG22-2500-9xx-VDIM	2'	2	22W	2,462	113 lm/W	134 lm/W
120-277V	>90	KT-RKIT-2AG22-3200-9xx-VDIM	2'	2	31W	3,239	106 lm/W	126 lm/W
120-277V	>90	KT-RKIT-2AG22-4200-9xx-VDIM	2'	2	42W	4,157	99 lm/W	118 lm/W
120-277V	>90	KT-RKIT-2AG44-3500-9xx-VDIM	4'	2	30W	3,438	117 lm/W	139 lm/W
120-277V	>90	KT-RKIT-2AG44-4200-9xx-VDIM	4'	2	36W	4,202	115 lm/W	137 lm/W
120-277V	>90	KT-RKIT-2AG44-5000-9xx-VDIM	4'	2	45W	5,038	112 lm/W	133 lm/W

*9xx denotes 900 Series and an available color temperature of 3000K

FEATURES AND BENEFITS
• Ideal retrofit for vapor tight fixtures

TYPICAL INSTALLATION APPLICATION

Each pre-assembled kit includes (1) phase control dimmable LED driver, (1) LED module, (1) metal pan, mounting hardware, and accessories

8", 650 LUMEN WALL SCONCE (Phase Control Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	Total System Power	Total Lumens per Module	Total System Lumens	Total System Efficacy	Module Efficacy
120V	KT-RKIT-HCP-8-650-8xx-FDIM	6.9W	720	720	104 lm/W	130 lm/W

8", 1150 LUMEN WALL SCONCE (Phase Control Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	Total System Power	Total Lumens per Module	Total System Lumens	Total System Efficacy	Module Efficacy
120V	KT-RKIT-HCP-8-1150-8xx-FDIM	10.6W	1,180	1,180	111 lm/W	138 lm/W

*8xx denotes several color temperatures available:

830	800 Series, 3000K	840	800 Series, 4000K	850	800 Series, 5000K

TYPICAL INSTALLATION APPLICATION

FUTURE FIT >

Standard Circular and Switchable Lumen Circular LED Kits
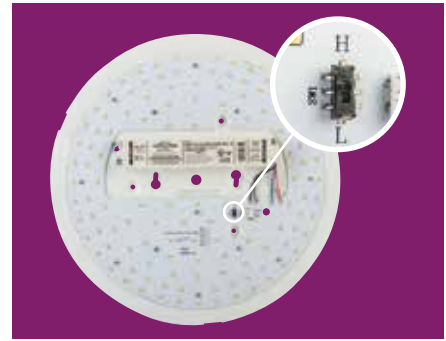
Each pre-assembled kit includes (1) dimmable LED driver, (1) LED module, (1) metal pan, mounting hardware, and accessories

8", 1600 LUMEN CIRCULAR

Input Voltage	LED Retrofit Kit Catalog Number	Dimming Type	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120V	KT-RKIT-CP-8-1600-8xx-FDIM	Phase Control	16.2W	1,800	111 lm/W	138 lm/W
120-277V	KT-RKIT-CP-8-1600-8xx-VDIM	0-10V	16.2W	1,800	111 lm/W	138 lm/W

8", 2200 LUMEN CIRCULAR

Input Voltage	LED Retrofit Kit Catalog Number	Dimming Type	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120V	KT-RKIT-CP-8-2200-8xx-FDIM	Phase Control	20.4W	2,240	109 lm/W	137 lm/W
120-277V	KT-RKIT-CP-8-2200-8xx-VDIM	0-10V	20.4W	2,240	109 lm/W	137 lm/W

8", 2750 LUMEN CIRCULAR (0-10V Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	Dimming Type	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-CP-8-2750-8xx-VDIM	0-10V	25.2W	2,845	113 lm/W	136 lm/W

*Also available in 2700K color temperature

13" SWITCHABLE LUMEN CIRCULAR, SET AT 3000 LUMENS (0-10V Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-CP-13-4000-8xx-VDIM	1	27W	3,220	119 lm/W	133 lm/W

13" SWITCHABLE LUMEN CIRCULAR, SET AT 4000 LUMENS (0-10V Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-CP-13-4000-8xx-VDIM	1	36W	4,150	116 lm/W	134 lm/W

*8xx denotes several color temperatures available. 3500K not available for 1600 lumen and 2200 lumen 8" circular kits.

830	800 Series, 3000K	**835**	800 Series, 3500K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

TYPICAL INSTALLATION APPLICATION
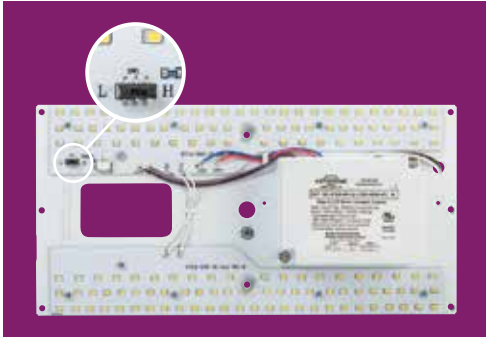
Each pre-assembled kit includes (1) LED driver, (2) LED modules, (1) metal pan, mounting hardware, and accessories

3"x6", 800 LUMEN RECTANGULAR

Input Voltage	LED Retrofit Kit Catalog Number	Total System Power	Total Lumens per Module	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-RP-6-800-8xx-UV	8.5W	435	870	102 lm/W	124 lm/W

3"x6", 1600 LUMEN RECTANGULAR

Input Voltage	LED Retrofit Kit Catalog Number	Total System Power	Total Lumens per Module	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-RP-6-1600-8xx-UV	17W	825	1,650	97 lm/W	118 lm/W

5.5"x11" SWITCHABLE LUMEN RECTANGULAR, SET AT 3000 LUMENS

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-RP-11-4000-8xx-VDIM	2	26W	3,300	127 lm/W	140 lm/W

5.5"x11" SWITCHABLE LUMEN RECTANGULAR, SET AT 4000 LUMENS

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-RP-11-4000-8xx-VDIM	2	34.5W	4,200	122 lm/W	136 lm/W

8xx denotes several color temperatures available. 3500K only availalbe for switchable lumen rectangular kits.

| 830 | 800 Series, 3000K | 835 | 800 Series, 3500K | 840 | 800 Series, 4000K | 850 | 800 Series, 5000K |

TYPICAL INSTALLATION APPLICATION

FUTURE FIT AC
AC LED LIGHT ENGINE KITS
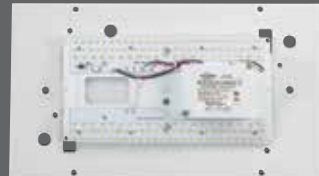
FEATURES AND BENEFITS
- L70 > 50,000 hours
- Operating temperature: 0ºF-104Fº, -18ºC-40ºC
- High power factor >.90
- T24 JA8 Compliant (90CRI 2700K and 3000K only) and CEC T20 Compliant
- Suitable for fully enclosed fixtures
- THD: <20%
- 5% minimum dimming, low flicker
- Comes with mounting accessories
- Pre-assembled with metal heatsink 5VA cover

COMPATIBLE DIMMERS*

Manufacturer	Model Number
Lutron	S-600PR-WH
Lutron	TGCL-153PH-WH
Lutron	MACL-153MH-LA
Leviton	WA-RXX-06674-12A

For compatibility with other dimmers, contact Keystone

3" ROUND

Catalog Number	CRI	Wattage	Lumens	Efficacy	Input Voltage	Dimming Method	Equivalents
KT-RKIT8AC-3C-8xx-FDIM	>80	8W	790	98 lm/W	120V	Phase Control	• (1) 60W Incandescent • (1) 18W CFL
KT-RKIT10AC-3C-9xx-FDIM	>90	10W	820	82 lm/W	120V	Phase Control	

4" ROUND

Catalog Number	CRI	Wattage	Lumens	Efficacy	Input Voltage	Dimming Method	Equivalents
KT-RKIT12AC-4C-8xx-FDIM	>80	12W	1,150	96 lm/W	120V	Phase Control	• (2) 40W Incandescent • (2) 11W CFL • (1) 20W T9 Circline
KT-RKIT17AC-4C-9xx-FDIM	>90	17W	1,340	74 lm/W	120V	Phase Control	

5.5" ROUND

Catalog Number	CRI	Wattage	Lumens	Efficacy	Input Voltage	Dimming Method	Equivalents
KT-RKIT16AC-5C-8xx-FDIM	>80	16W	1,700	106 lm/W	120V	Phase Control	• (2) 60W Incandescent • (2) 13W CFL • (1) 20W T9 Circline

7" ROUND

Catalog Number	CRI	Wattage	Lumens	Efficacy	Input Voltage	Dimming Method	Equivalents
KT-RKIT19AC-7C-8xx-FDIM	>80	19W	2,100	110 lm/W	120V	Phase Control	• (2) 75W Incandescent • (2) 18W CFL • (1) 32W T9 Circline
KT-RKIT25AC-7C-8xx-FDIM	>80	25W	2,520	101 lm/W	120V	Phase Control	
KT-RKIT28AC-7C-9xx-FDIM	>90	28W	2,280	83 lm/W	120V	Phase Control	

*8xx denotes several color temperatures available:					
830	800 Series, 3000K	**840**	800 Series, 4000K	**850**	800 Series, 5000K

*9xx denotes several color temperatures available:							
927	900 Series, 2700K	**930**	900 Series, 3000K	**940**	900 Series, 4000K	**950**	900 Series, 5000K

DUAL TECHNOLOGY HIGH BAY OCCUPANCY SENSORS

Catalog Number	Frequency	Maximum Load Rating	Power Consumption
HBE-PIR-120/277/347	50/60Hz	800VA @ 120VAC, 1200VA @ 277VAC, 1500VA @ 347VAC	0.2W @ 120VAC, 1.0W @ 277VAC, 2.0W @ 347VAC
KTS-PIR2-UV-KO	50/60Hz	800VA @ 120V; 1200VA @ 277V; 1500VA @ 347V	≤0.8W @ 120V; ≤1.6W @ 277V; ≤2.2W @ 347V

ACCESSORIES FOR HIGH BAY OCCUPANCY SENSORS (SOLD SEPARATELY)

Catalog Number	Description
HBE-EXBT	Extender bracket for high bay motion sensor; lowers sensor for optimum field of view

WET LOCATION OCCUPANCY SENSORS FOR OUTDOOR USE

Catalog Number	Frequency	Maximum Load Rating	Power Consumption	Features
HBE-PIR-120-277-IP65	50/60Hz	800VA @ 120VAC, 1200VA @ 208/240/277VAC	0.07W @ 120VAC, 0.39W @ 277VAC	IP65 Rated
HBE-PIR-347/480-IP65	50/60Hz	1500VA @ 347VAC, 2000VA @ 480VAC	0.19W @ 347VAC, 0.37W @ 480VAC	IP65 Rated

FEATURES AND PERFORMANCE

- Simple adjustable controls for time delay and day lighting control
- Passive infrared (PIR) sensing technology; LED indicator
- Ideal for fluorescent or LED high bay fixtures in warehouses, manufacturing facilities, and other high ceiling applications
- No minimum load requirements
- Interchangeable lenses including aisle pattern view; low bay lens included with wet location sensor only
- Embedded relay (no external box required)
- Mounting height: Up to 40' maximum
- Operating temperature range: 14ºF-160ºF for standard high bay sensors; -4ºF-160ºF for wet location sensors

HIGH BAY MICROWAVE OCCUPANCY SENSORS

Catalog Number	Operating Frequency	Input Voltage	Output Voltage	Transmit Power	Detection Angle	Max Mounting Height	Detection Radius	Preset Standby Time	Preset Hold Time
KTS-MW2-12V-WL /A	5.8GHz	12–24Vdc	0–10V	1 mW	150º (wall-mount) 360º (ceiling-mount)	49'	16.4'–23.0' (mounted at 26.2')	3 min. at 30% dimming	1 min.
KTS-MW2-12V-WL /B								10 min. at 10% dimming	5 min.

FEATURES

- On/off with preset hold time
- Preset standby time and dimming level; settings can be customized at factory, upon request
- Operating temperature range –31ºF/–35ºC to 131ºF/55ºC

SOCKETS

Catalog Number	Description
KT-SOCKET-RDC-PE	Recessed double contact socket with plunger end for high output lamps
KT-SOCKET-RDC-SE	Recessed double contact socket with stationary end for high output lamps
KT-SOCKET-SL-PE	Single pin slimline socket with plunger end
KT-SOCKET-SL-SE	Single pin slimline socket with stationary end
KT-SOCKET-T8-U-T	Non-shunted tall T8 socket with push-through with nub, approximately 30mm
KT-SOCKET-T8-U-S	Non-shunted standard T8 socket with push-through with nub, approximately 23mm
KT-SOCKET-T8-U-SI	Slide-on socket for DirectDrive U-bend lamps

LED DRIVERS
SmartCurrent Programmable LED Drivers

SMART CURRENT
PROGRAMMABLE LED DRIVERS

EC&M Product of the Year
2018 Category Winner

PRODUCT FEATURES

- Programmable output current via Keystone's SmartCurrent cradle (Catalog Number: KTLD-SC-PGMR-1)
- Download software at keystonetech.com/programmable-driver-software
- Pre-programming available upon request
- Meets FCC Part 15 (Class B) consumer limits
- Short circuit overload and open load protection
- Dimmable with 0-10V dimmer (down to 1% at max. output current)
- U and W case styles feature auxiliary power: 12Vdc; 200mA max.
- UL 8750, Class P

PROGRAMMING FEATURES

- Drive current (10 mA increments)
- Minimum dimming level (1%, 3%, 5%, 7%, or 10%)
- Dimming curve (linear, log, inverse log, or square-log)
- Minimum dimming voltage (1V, 1.5V, or 2V)
- Maximum dimming voltage (7V, 8V, or 9V)
- Dim-to-off voltage (0.8V, 1V, 1.2V, or N/A)

Catalog Number	Max. Output Power	Input Voltage	Output Current	Output Voltage	OCV	Class 2		Case Style
						US	CAN	
KTLD-12-UV-SC500-56-VDIM-AF1	12W	120-277V	120-500mA	10-56V	60V	Yes	No	AF1
KTLD-20-UV-SC730-56-VDIM-AF4	20W	120-277V	200-730mA	10-56V	60V	Yes	No	AF4
KTLD-25-UV-SC1250-56-VDIM-W1	25W	120-277V	420-1250mA	10-56V	60V	Yes	No	W1
KTLD-30-UV-SC1050-56-VDIM-U7	30W	120-277V	350-1050mA	10-56V	60V	Yes	No	U7
KTLD-40-UV-SC1400-56-VDIM-W1	40W	120-277V	470-1400mA	10-56V	60V	Yes	No	W1
KTLD-50-UV-SC1400-56-VDIM-U7	50W	120-277V	470-1400mA	10-56V	60V	Yes	No	U7
KTLD-85-UV-SC2600-56-VDIM-U4	85W	120-277V	860-2600mA	10-56V	60V	Yes	No	U4

Case Style U4

Case Style W1

Case Style U7

Case Style AF1

Case Style AF4

SmartCurrent Cradle (KTLD-SC-PGMR-1)

SmartCurrent Cradle
Catalog No. KTLD-SC-PGMR-1

Programming the driver is easy with the SmartCurrent Cradle. The cradle connects the driver to the SmartCurrent PC software via USB (cable included). Start by downloading the SmartCurrent PC software from keystonetech.com/programmable-driver-software. Then use the software to program the driver to your specifications.

ACCESSORIES

Catalog Number	Description
KTLD-SC-PGMR-1	SmartCurrent Cradle with micro-USB cable
KTLD-SC-ADPT-1A	Programming jig adapter for Keystone SmartCurrent LED drivers with U7 or U4 cases. For handheld programming option. Must be used in conjunction with KTLD-SC-PGMR-1.
KTLD-SC-ADPT-1B	Programming jig adapter for Keystone SmartCurrent LED drivers with W1 cases. Must be used in conjunction with KTLD-SC-PGMR-1.
KTLD-SC-ADPT-1C	Programming jig adapter for Keystone SmartCurrent LED drivers with AF1 or AF4 cases. Must be used in conjunction with KTLD-SC-PGMR-1.

WHAT'S NEEDED?

For SmartCurrent Drivers with U Style Cases: SmartCurrent Cradle, computer

For SmartCurrent Drivers with W Style Cases: SmartCurrent Cradle, jig adapter KTLD-SC-ADPT-1B, computer

For SmartCurrent Drivers with AF Style Cases: SmartCurrent Cradle, jig adapter KTLD-SC-ADPT-1C, computer

Drivers are available for pre-programming before shipment. Order with /pp at the end of the catalog number and list the desired output current setting on the purchase order. Example: KTLD-30-UV-SC1050-56-VDIM-U7 /PP

LED DRIVERS
Constant Current

CONSTANT CURRENT

Wattage Family	Catalog Number	Rated Output Current	Output Voltage	Output Power	Input Voltage	Dimming
10W	KTLD-10-1N-350-F3	350mA	7.5-30Vdc	10W	120Vac	N/A
	KTLD-10-1N-300-F3	300mA	6-33Vdc	10W	120Vac	N/A
	KTLD-10-1N-380-F3	380mA	6.5-28Vdc	10W	120Vac	N/A
	KTLD-10-1P-380-LDIM-AF1	380mA	13-27Vdc	10W	120Vac	Local
12W	KTLD-12-1-350-FDIM-F5	350mA	17-34Vdc	12W	120Vac	Phase Control
	KTLD-12-1-500-FDIM-F5	500mA	12-24Vdc	12W	120Vac	Phase Control
	KTLD-12-1-700-FDIM-F5	700mA	8-17Vdc	12W	120Vac	Phase Control
	KTLD-12-1-350-FDIM-AF1	350mA	6-32Vdc	12W	120Vac	Phase Control
	KTLD-12-1-380-FDIM-AF1	380mA	5-32Vdc	12W	120Vac	Phase Control
	KTLD-12-1-700-FDIM-AF1	700mA	5-17Vdc	12W	120Vac	Phase Control
14W	KTLD-14-1-350-FDIM-AF1	350mA	10-40Vdc	14W	120Vac	Phase Control
22W	KTLD-22-1-350-FDIM-AK1	350mA	21-63Vdc	22W	120Vac	Phase Control
	KTLD-22-1-700-FDIM-AK1	700mA	10-32Vdc	22W	120Vac	Phase Control
	KTLD-22-UV-500-VDIM-L7	500mA	22-44Vdc	22W	120-277Vac	0-10V
	KTLD-22-UV-600-VDIM-L7	600mA	18-36Vdc	22W	120-277Vac	0-10V
	KTLD-22-UV-700-AK1	700mA	10-32Vdc	22W	120-277Vac	N/A
23W	KTLD-23-UV-830-VDIM-L7	830mA	14-28Vdc	23W	120-277Vac	0-10V
25W	KTLD-25-UV-700-VDIM-L9	700mA	18-36Vdc	25W	120-277Vac	0-10V
36W	KTLD-36-UV-900-VDIM-L2	900mA	18-36Vdc	36W	120-277Vac	0-10V
	KTLD-36-UV-1500-VDIM-L2	1500mA	12-24Vdc	36W	120-277Vac	0-10V
40W	KTLD-40-UV-1100-VDIM-L2	1100mA	18-36Vdc	40W	120-277Vac	0-10V
	KTLD-40-UV-1100-VDIM-L9	1100mA	18-36Vdc	40W	120-277Vac	0-10V
50W	KTLD-50-UV-2X500-VDIM-L5	2x500mA (Dual Channel)	25-50Vdc	50W	120-277Vac	0-10V
	KTLD-50-UV-2X700-VDIM-L5	2x700mA (Dual Channel)	18-36Vdc	50W	120-277Vac	0-10V
60W	KTLD-60-UV-1600-VDIM-W2	1600mA	18-37.5Vdc	60W	120-277Vac	0-10V
72W	KTLD-72-UV-2X1000-VDIM-L5	2x1000mA (Dual Channel)	18-36Vdc	72W	120-277Vac	0-10V
75W	KTLD-75-UV-1450-VDIM-L5	1450mA	27-51Vdc	75W	120-277Vac	0-10V
100W	KTLD-100-UV-1750-VDIM-L5	1750mA	29-57Vdc	100W	120-277Vac	0-10V
	KTLD-100-UV-4X500-VDIM-L18	4x500mA (4 Channel)	25-50Vdc	100W	120-277Vac	0-10V

We make LED easy. From simple explanations to special design requests, call us today for any LED questions.
For a complete listing of our LED drivers, contact Keystone or visit our website at KeystoneTech.com.

CONSTANT VOLTAGE

Wattage Family	Catalog Number	Rated Output Voltage	Maximum Power	Maximum Current	Input Voltage	SAM Qualified*	Additional Approvals
10W	KTLD-10-1N-12V-F3	12Vdc	10W	0.83A	120Vac	Yes	
24W	KTLD-24-UV-12V-AK1	12Vdc	24W	2.00A	120-277Vac	Yes	
	KTLD-24-UV-24V-AK1	24Vdc	24W	1.00A	120-277Vac	N/A	
60W	KTLD-60-UV-12V	12Vdc	60W	5.00A	120-277Vac	Yes	
	KTLD-60-UV-12V-67-AP4	12Vdc	60W	5.00A	120-277Vac	Yes	
	KTLD-60-UV-12V-MC1	12Vdc	60W	5.00A	120-277Vac	Yes	
	KTLD-60-UV-12V-VDIM-L5 (0-10V Dimmable)	12Vdc	60W	5.00A	120-277Vac	Yes	
	KTLD-60-UVN-12V-SC1	12Vdc	60W	5.00A	120-277Vac	Yes	
	KTLD-60-UV-24V	24Vdc	60W	2.50A	120-277Vac	Yes	
80W	KTLD-80-UV-12V	12Vdc	80W	6.70A	120-277Vac	N/A	
	KTLD-80-UV-24V	24Vdc	80W	3.30A	120-277Vac	N/A	
100W	KTLD-100-UV-12V	12Vdc	100W	8.00A	120-277Vac	Yes	
	KTLD-100-UV-24V	24Vdc	100W	4.00A	120-277Vac	Yes	
	KTLD-100-UV-24V-MC2	24Vdc	100W	4.00A	120-277Vac	Yes	
120W	KTLD-120-UV-12V-L10	12Vdc	120W (2x60W Channels)	5.00A	120-277Vac	Yes	

*Sign Component Manual (SAM) - SAM is a directory governed by UL that lists all components that have been tested and certified under the UL standard for electric signs. It is updated quarterly and contains all of the components associated with the manufacturing of electric signs, including LED power supplies. For more information, visit www.ul.com.

SPEED DIAL PROGRAMMABLE CONSTANT CURRENT LED DRIVER

SPEEDDIAL
PROGRAMMABLE DRIVERS

NO COMPUTERS. NO MISTAKES. NO HASSLES.

With just a simple twist of Keystone's unique SpeedDial, the LED driver is programmed to your desired output current.

FEATURES AND BENEFITS

- **Slim form factor:** Ideal for narrow channels and slender fixtures
- **Easy adjustability:** Simply twist the SpeedDial with a standard screwdriver to the desired setting
- **Reduced inventory:** Utilize a single SKU for several output current settings
- **High efficiency:** Keystone's expertise in LED driver design targets maximum efficiencies at all current settings
- **0-10V dimming:** Uncompromised dimming performance for any 0-10V dimming system

	INPUT CHARACTERISTICS				OUTPUT CHARACTERISTICS			FEATURES
Catalog Number	Input Voltage	Input Power	Power Factor	Max. Current	Max. Output Power	Rated Output Current	Output Voltage	Efficiency
KTLD-44-UV-SD700-1200-VDIM-L20	120-277Vac	52W	>0.9	0.48A @ 120V 0.22A @ 277V	44W	700, 800, 900, 1000, 1100, or 1200 mA	18~36Vdc	84% (at 1200mA)

TRANSFORMERS

480-277V STEP-DOWN TRANSFORMERS

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			Description	Additional Approvals
	Input Voltage	Input Current at Max. Load	Input Current at No Load	Output Voltage	Max. Load	Max Output Current		
KTAT-375-480-277 /A	480V	0.86A	0.21A	277V	375VA	1.35A	Fully enclosed, flying leads	UL LISTED
	347V	0.86A	0.11A	200V	270VA	1.35A		
KTAT-375-480-277 /SF	480V	0.86A	0.21A	277V	375VA	1.35A	Fully enclosed, single flex	
	347V	0.86A	0.11A	200V	270VA	1.35A		
KTAT-250-480-277 /A	480V	0.57A	0.16A	277V	250VA	0.90A	Fully enclosed, flying leads	
	347V	0.57A	0.11A	200V	180VA	0.90A		
KTAT-250-480-277 /SF	480V	0.57A	0.16A	277V	250VA	0.90A	Fully enclosed, single flex	
	347V	0.57A	0.11A	200V	180VA	0.90A		
KTAT-150-480-277-OC	480V	0.33A	0.05A	240V	125VA	0.52A	Open core, flying leads	c UL US
				277V	150VA	0.54A		
	347V	0.45A	0.06A	240V	125VA	0.52A		
				277V	150VA	0.54A		
KTAT-70-347-277	347V	0.23A	0.07A	277V	70VA	0.27A	Fully enclosed, flying leads	UL LISTED
KTAT-70-347-277-RJS	347V	0.23A	0.07A	277V	70VA	0.27A	Fully enclosed, rear junction studs	
KTAT-70-480-277	480V	0.16A	0.06A	277V	70VA	0.25A	Fully enclosed, flying leads	
	347V	0.22A	0.08A	277V	70VA	0.25A		
KTAT-70-480-277-RJS	480V	0.16A	0.06A	277V	70VA	0.25A	Fully enclosed, rear junction studs	
	347V	0.22A	0.08A	277V	70VA	0.25A		
KTAT-30-347-277	347V	0.11A	0.05A	277V	30VA	0.13A	Fully enclosed, flying leads	
KTAT-30-347-277-RJS	347V	0.11A	0.05A	277V	30VA	0.13A	Fully enclosed, rear junction studs	

120-12V STEP-DOWN TRANSFORMERS

Max. Input Power	Input Voltage	Catalog Number	Input Current	Output Voltage	Dimmable	Remarks	Additional Approvals
60W	120V	KTET-60-1-WC-F	0.50A	11V	No	With cord and fuse	UL
		KTET-60-1-SCP-DIM-AL	0.50A	12V	Yes	Class 2, short circuit protected, aluminum case	
75W	120V	KTET-75-1-SCP-EMI	0.63A	11V	No	Short circuit protected, EMI filter	
		KTET-75-1-SCP-DIM-RJS	0.62A	11V	Yes	With rear mount studs and leads for J-box application	
		KTET-75-1-SCP-DIM-HV-AL	0.59A	12V	Yes	With aluminum case, side leads	
	277V	KTET-75-2-SCP-RJS	0.26A	11V	No	With rear mount studs and leads for J-box application	
150W	120V	KTET-150-1-SCP-DIM	1.27A	11.4V	Yes	Short circuit protected, aluminum case	

T8 LINEAR

Nominal Wattage	Nominal Length	Catalog Number	Case Quantity	CRI	Initial Lumens	Mean Lumens	Rated Average Life		Lumen Maintenance	Additional Approvals
							3-hr/Start	12-hr/Start		
High Performance Linear T8 Lamps (Medium Bi-Pin, G13 Base)										
17W	24"	KTL-F17T8-8xx-HP	25	85	1,380	1,300	30,000 Hours	36,000 Hours	94%	N/A
25W	36"	KTL-F25T8-8xx-HP	25	85	2,275	2,140	30,000 Hours	36,000 Hours	94%	
25W	48"	KTL-F25T8ES-8xx-HP	25	85	2,500	2,350	30,000 Hours	36,000 Hours	94%	
28W	48"	KTL-F28T8ES-8xx-HP	25	85	2,725	2,560	30,000 Hours	36,000 Hours	94%	CEE Qualified
32W	48"	KTL-F32T8-8xx-HP	25	85	3,100	2,915	30,000 Hours	36,000 Hours	94%	
32W	48"	KTL-F32T8-8xx-XHP	25	85	3,200	3,010	30,000 Hours	36,000 Hours	94%	
32W	48"	KTL-F32T8-8xx-XL	25	85	3,100	2,915	42,000 Hours	48,000 Hours	94%	

T5 LINEAR

Nominal Wattage	Nominal Length	Catalog Number	Case Quantity	CRI	Initial Lumens	Mean Lumens	Rated Average Life		Lumen Maintenance
							3-hr/Start	12-hr/Start	
High Efficiency Linear T5 Lamps (Miniature Bi-Pin, G5 Base)									
14W	24"	KTL-F14T5-8xx-HE	25	85	1,350	1,265	24,000 Hours	30,000 Hours	94%
21W	36"	KTL-F21T5-8xx-HE	25	85	2,200	2,060	24,000 Hours	30,000 Hours	94%
28W	48"	KTL-F28T5-8xx-HE	25	85	2,900	2,725	24,000 Hours	30,000 Hours	94%
High Output Linear T5 Lamps (Miniature Bi-Pin, G5 Base)									
49W	48"	KTL-F49T5-8xx-HO	25	85	4,900	4,600	24,000 Hours	30,000 Hours	94%
54W	48"	KTL-F54T5-8xx-HO	25	85	5,000	4,700	24,000 Hours	30,000 Hours	94%

T12 LINEAR

Nominal Wattage	Nominal Length	Catalog Number	Case Quantity	Color Temperature	CRI	Initial Lumens	Mean Lumens	Rated Average Life		Lumen Maintenance
								3-hr/Start	12-hr/Start	
2012 DOE Compliant Linear T12 Lamps (Medium Bi-Pin, G13 Base)										
40W	48"	KTL-F40T12-841-CWX	30	4100K	89	2,500	2,250	24,000 Hours	30,000 Hours	90%

T9 CIRCULAR

Nominal Wattage	Diameter	Catalog Number	Case Quantity	Color Temperature	CRI	Initial Lumens	Mean Lumens	Rated Average Life (3-hr/Start)	Lumen Maintenance
Circular T9 Lamps (4-Pin, G10q Base)									
22W	8"	KTL-FC8T9-CW	12	4100K	60	1,120	920	10,000 Hours	82%
22W	8"	KTL-FC8T9-DL	12	6500K	76	980	805	10,000 Hours	82%
32W	12"	KTL-FC12T9-CW	12	4100K	60	1,930	1,582	10,000 Hours	82%
32W	12"	KTL-FC12T9-DL	12	6500K	76	1,675	1,373	10,000 Hours	82%
40W	16"	KTL-FC16T9-CW	12	4100K	60	2,950	2,420	10,000 Hours	82%
40W	16"	KTL-FC16T9-DL	12	6500K	76	2,450	2,010	10,000 Hours	82%

8xx denotes several color temperatures available:

835	800 Series, 3500K	841	800 Series, 4100K	850	800 Series, 5000K	865	800 Series, 6500K

T12

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
F20T12	1	120V	KTEB-120-1-TP-EMI	3 Years	1 lamp F20T12, FCC Class B, normal power factor
	2	120V	KTEB-220-1-TP-EMI	3 Years	2 lamp F20T12, FCC Class B, normal power factor
F40T12	1	120V	KTEB-140-1-TP-EMI	3 Years	1 lamp F40T12, FCC Class B, normal power factor
	2	120V	KTEB-240-1-TP-PIC	3 Years	2 lamp F40T12, F40T12ES, and F34T12, high power factor
		120-277V	KTEB-240-UV-TP-PIC	3 Years	2 lamp F40T12, F40T12ES, and F34T12, high power factor
F96T12	2	120V	KTEB-275-1-TP-PIC-SL	3 Years	1 or 2 lamp F96T12 and F96T12ES, 9" case
		120-277V	KTEB-275-UV-TP-PIC	3 Years	1 or 2 lamp F96T12 and F96T12ES
			KTEB-275-UV-TP-PIC-SL	3 Years	1 or 2 lamp F96T12 and F96T12ES, 9" case
F96T12HO	2	120V	KTEB-2110-1-TP-PIC	3 Years	1 or 2 lamp F96T12HO and F96T12HOES
		120-277V	KTEB-2110-UV-TP-PIC	3 Years	1 or 2 lamp F96T12HO and F96T12HOES

T8 INSTANT START

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Light Output	Description
F17T8 F25T8 F32T8*	2	120-277V	KTEB-232-UV-IS-L-P	5 Years	Low	1 or 2 lamp F17/25/32 T8, reduced output
			KTEB-232-UV-IS-N-P	5 Years	Normal	1 or 2 lamp F17/25/32 T8, standard output
			KTEB-232-UV-IS-H-P	5 Years	High	1 or 2 lamp F17/25/32 T8, high output
		347V	KTEB-232-3-IS-N-P	5 Years	Normal	1 or 2 lamp F17/25/32 T8, standard output
	3	120-277V	KTEB-332-UV-IS-L-P	5 Years	Low	2 or 3 lamp F17/25/32 T8, reduced output
			KTEB-332-UV-IS-N-P	5 Years	Normal	2 or 3 lamp F17/25/32 T8, standard output
			KTEB-332-UV-IS-H-P	5 Years	High	2 or 3 lamp F17/25/32 T8, high output
	4	120-277V	KTEB-432-UV-IS-L-P	5 Years	Low	3 or 4 lamp F17/25/32 T8, reduced output
			KTEB-432-UV-IS-N-P	5 Years	Normal	3 or 4 lamp F17/25/32 T8, standard output
			KTEB-432-UV-IS-H-P	5 Years	High	3 or 4 lamp F17/25/32 T8, high output
		347V	KTEB-432-3-IS-N-P	5 Years	High	3 or 4 lamp F17/25/32/40 T8, high output
F96T8	2	120-277V	KTEB-259-UV-IS-N	5 Years	Normal	1 or 2 lamp F96T8, standard output
F96T8HO	2	120-277V	KTEB-286HO-UV-IS-N	5 Years	Normal	1 or 2 lamp F96T8HO, standard output

*F32T8 lamps including F32T8 (25W), F32T8 (28W), F32T8 (30W) and F32T8 (32W)

T8 PROGRAM START

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Light Output	Description
F17T8 F25T8 F32T8*	1	120-277V	KTEB-132-UV-PS-N-P	5 Years	Normal	1 lamp F17/25/32 T8, standard output
	2	120-277V	KTEB-232-UV-PS-VDIM	5 Years	Normal	2 lamp F17/25/32 T8, 0-10V dimming
			KTEB-232-UV-PS-L-P	5 Years	Low	1 or 2 lamp 17/25/32 T8, reduced output
			KTEB-232-UV-PS-N-P	5 Years	Normal	1 or 2 lamp F17/25/32 T8, standard output
			KTEB-232-UV-PS-H-P	5 Years	High	1 or 2 lamp F17/25/32 T8, high output
	3	120-277V	KTEB-332-UV-PS-L-P	5 Years	Low	2 or 3 lamp F17/25/32 T8, reduced output
			KTEB-332-UV-PS-N-P	5 Years	Normal	2 or 3 lamp F17/25/32 T8, standard output
			KTEB-332-UV-PS-H-P	5 Years	High	2 or 3 lamp F17/25/32 T8, high output
	4	120-277V	KTEB-432-UV-PS-L-P	5 Years	Low	3 or 4 lamp F17/25/32 T8, reduced output
			KTEB-432-UV-PS-N-P	5 Years	Normal	3 or 4 lamp F17/25/32 T8, standard output
F58T8, F70T8	2	120-277V	KTEB-270-UV-PS-N /C1	5 Years	Normal	1 or 2 lamp F58/70 T8 freezer ballast with Molex connectors
F96T8HO	2	120-277V	KTEB-286HO-UV-PS-N	5 Years	Normal	1 or 2 lamp F96T8HO, standard output

*F32T8 lamps including F32T8 (25W), F32T8 (28W), F32T8 (30W) and F32T8 (32W) except KTEB-232-UV-PS-VDIM

T5

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
F14T5, F21T5, F28T5	1 or 2	120-277V	KTEB-228HE-UV-PS	5 Years	1 or 2 lamp F14/21/28 T5 program start, 90ºC rated
			KTEB-228HE-UV-PS-SL	5 Years	1 or 2 lamp F14/21/28 T5 program Start, 90ºC rated, 9" case

T5HO

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
F24T5HO or F39T5HO	1 or 2	120-277V	KTEB-239HO-UV-PS-SL	5 Years	1 or 2 lamp F24T5HO or F39T5HO program start, 90ºC rated, 9" case
F54T5HO	1 or 2	120-277V	KTEB-254HO-UV-PS	5 Years	1 or 2 lamp F54T5HO program start, 90ºC rated
			KTEB-254HO-UV-PS-SL	5 Years	1 or 2 lamp F54T5HO program start, 90ºC rated, 9" case
	3 or 4	120-277V	KTEB-454HO-UV-PS	5 Years	3 or 4 lamp F54T5HO program start, 90ºC rated

COMPACT FLUORESCENT

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
9W CFL	1	120V	CC579TP	3 Years	5, 7, 9W, 2-pin CFL, magnetic
13W CFL	1	120V	CC1322TP	3 Years	13W, 2-pin CFL, magnetic
			113SHPTP	3 Years	1 lamp 13W 2-pin CFL, high power factor, magnetic
	1 or 2	120-277V	KTEB-213-UV-PS-DW	5 Years	1 or 2 lamp 13W 4-pin CFL, program start
			KTEB-213-UV-RS-DW	5 Years	1 or 2 lamp 13W 4-pin CFL, rapid start
			KTEB-213-UV-RS-DW-KIT	5 Years	1 or 2 lamp 13W 4-pin CFL, kit includes wires/stud plate
18W CFL	1 or 2	120-277V	KTEB-218-UV-PS-DW	5 Years	1 or 2 lamp 18W 4-pin CFL, program start
			KTEB-218-UV-RS-DW	5 Years	1 or 2 lamp 18W 4-pin CFL, rapid start
			KTEB-218-UV-RS-DW-KIT	5 Years	1 or 2 lamp 18W 4-pin CFL, kit includes wires/stud plate
26W CFL	1 or 2	120-277V	KTEB-226-UV-PS-DW	5 Years	1 or 2 lamp 26W 4-pin CFL, program start
			KTEB-226-UV-RS-DW	5 Years	1 or 2 lamp 26W 4-pin CFL, rapid start
			KTEB-226-UV-RS-DW-KIT	5 Years	1 or 2 lamp 26W 4-pin CFL, kit includes wires/stud plate
42W CFL	1 or 2	120-277V	KTEB-242-UV-PS-DW	5 Years	1 or 2 lamp 42W 4-pin CFL, program start
			KTEB-242-UV-RS-DW	5 Years	1 or 2 lamp 42W 4-pin CFL, rapid start
			KTEB-242-UV-RS-DW-KIT	5 Years	1 or 2 lamp 42W 4-pin CFL, kit includes wires/stud plate

CIRCLINE

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
FC8T9	1	120V	SS22WSTP	3 Years	22W circline, small case, self-start, magnetic with sockets
FC22T9	1	120V	KTEB-1C22-1-TP-WS	3 Years	1 lamp 22W, small case, with sockets
FC32T9 or FC40T9	1	120V	KTEB-140-1-TP-EMI-WS	3 Years	1 lamp 32 or 40W, with sockets
FC22T9 & FC32T9 or FC32T9 & FC40T9	2	120V	KTEB-2C72-1-TP-WS	3 Years	2 lamp 22W & 32W or 32 & 40W, with sockets

FLUORESCENT BALLASTS
Fluorescent Emergency Back-Up Ballasts

LINEAR FLUORESCENT EMERGENCY BALLASTS

No. of Lamps in Fixture	Catalog Number	Input Voltage	Light Output	Illumination Time	Battery
T8 & T12 Linear					
1-4	KT-EMRG-500 /B	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-700 /B	120/277V, 60 Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400 /B	120/277V, 60 Hz	1,400 Lumens	90 Minutes	NiCd
T8 & T12 Linear Slim Can					
1-4	KT-EMRG-500-SL /B	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-700-SL /B	120/277V, 60 Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400-SL /B	120/277V, 60 Hz	1,400 Lumens	90 Minutes	NiCd
T5 Linear					
1-4	KT-EMRG-500-T5 /B	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-800-T5 /B	120/277V, 60 Hz	800 Lumens	90 Minutes	NiCd
	KT-EMRG-1300-T5*	120/277V, 60 Hz	1,300 Lumens	90 Minutes	NiCd

*Compatible for use with Keystone 11.5W, 14W, or 15W SmartDrive LED tubes

COMPACT FLUORESCENT EMERGENCY BALLASTS

No. of Lamps in Fixture	Catalog Number	Lamp Type	Input Voltage	Light Output	Illumination Time	Battery
1-4	KT-EMRG-650-CFL2	2-Pin CFL	120/277V, 60Hz	650 Lumens	90 Minutes	NiCd
	KT-EMRG-750-CFL4 /B	4-Pin CFL	120/277V, 60Hz	750 Lumens	90 Minutes	NiCd

CEC COMPLIANT EMERGENCY BALLASTS

No. of Lamps in Fixture	Catalog Number	Input Voltage	Light Output	Illumination Time	Battery
T8 & T12 Linear					
1-4	KT-EMRG-700C	120/277V, 50/60Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400C	120/277V, 50/60Hz	1,400 Lumens	90 Minutes	NiCd
T5 Linear					
1-4	KT-EMRG-800C-T5	120/277V, 50/60Hz	800 Lumens	90 Minutes	NiCd
Compact Fluorescent					
1-4	KT-EMRG-1400C-CFL4	120/277V, 50/60Hz	1,400 Lumens	90 Minutes	NiCd

SMARTWIRE™
ELECTRONIC SIGN BALLASTS

- **SmartWire Technology: Wires exactly the same as traditional magnetic ballasts for seamless compatibility and installation**
- **Lightweight:** Using solid-state technology, SmartWire electronic sign ballasts weigh **up to 50% less** than heavy magnetic ballasts, making transporting and handling significantly easier
- **2014 DOE Compliant:** All SmartWire electronic sign ballasts exceed the energy efficiency levels mandated by the DOE and are at least 10% more energy efficient than traditional magnetic sign ballasts
- **Versatile:** Just 3 SmartWire ballasts operate both T8HO and T12HO lamps, reducing inventory without sacrificing application options
- **Additional Features: 120V-277V Input** • Series wiring • Minimum starting temperature of -29ºC/-20ºF

Total T12HO Lamp Footage Permitted (in Feet)

Lamps Per Ballast	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
1-2		KTSB-E-0416-12-UV-S (4'–16')																						
2-4						KTSB-E-1232-24-UV-S (12'–32')																		
4-6										KTSB-E-2048-46-UV-S (20'–48')														

Total T8HO Lamp Footage Permitted (in Feet)

Lamps Per Ballast	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
1-2		KTSB-E-0416-12-UV-S (4'–12')																						
2-4						KTSB-E-1232-24-UV-S (12'–24')																		
4-6										KTSB-E-2048-46-UV-S (20'–36')														

Input Voltage	No. of Lamps	Combined Lamp Length	Catalog Number	Description
T12HO				
120-277V	1-2	4'-16'	KTSB-E-0416-12-UV-S	1-2 T12HO lamps with a combined length of 4-16 feet
	2-4	12'-32'	KTSB-E-1232-24-UV-S	2-4 T12HO lamps with a combined length of 12-32 feet
	4-6	20'-48'	KTSB-E-2048-46-UV-S	4-6 T12HO lamps with a combined length of 20-48 feet
T8HO				
120-277V	1-2	4'-12'	KTSB-E-0416-12-UV-S	1-2 T8HO lamps with a combined length of 4-12 feet
	2-4	12'-24'	KTSB-E-1232-24-UV-S	2-4 T8HO lamps with a combined length of 12-24 feet
	4-6	20'-36'	KTSB-E-2048-46-UV-S	4-6 T8HO lamps with a combined length of 20-36 feet

SIGN BALLASTS

PARA∥ELWIRE
ELECTRONIC SIGN BALLASTS

Total T8HO Lamp Footage Permitted (in Feet)

Lamps Per Ballast	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
1-2		KTSB-E-0216-12-UV																						
1-4		KTSB-E-0432-14-UV																						
1-4				KTSB-E-1040-14-UV																				
4-6								KTSB-E-0848-46-UV																

Total T12HO Lamp Footage Permitted (in Feet)

Lamps Per Ballast	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
1-2	KTSB-E-0216-12-UV																							
1-4		KTSB-E-0432-14-UV																						
1-4				KTSB-E-1040-14-UV																				
4-6				KTSB-E-0848-46-UV																				

Input Voltage	No. of Lamps	Combined Lamp Length	Catalog Number	Description
T12HO				
120-277	1-2	2'-16'	KTSB-E-0216-12-UV	1-2 T12HO lamps with a combined length of 2-16 feet*
	1-4	4'-32'	KTSB-E-0432-14-UV	1-4 T12HO lamps with a combined length of 4-32 feet*
		10'-40'	KTSB-E-1040-14-UV	1-4 T12HO lamps with a combined length of 10-40 feet
	4-6	8'-48'	KTSB-E-0848-46-UV	4-6 T12HO lamps with a combined length of 8-48 feet*
T8HO				
120-277	1-2	4'-12'	KTSB-E-0216-12-UV	1-2 T8HO lamps with a combined length of 4-12 feet*
	1-4	4'-24'	KTSB-E-0432-14-UV	1-4 T8HO lamps with a combined length of 4-24 feet*
		8'-32'	KTSB-E-1040-14-UV	1-4 T8HO lamps with a combined length of 8-32 feet*
	4-6	16'-36'	KTSB-E-0848-46-UV	4-6 T8HO lamps with a combined length of 16-36 feet*

For use only with lamps 8' and shorter

METAL HALIDE BALLAST KITS

Each kit includes the ballast pre-wired to a properly rated capacitor and ignitor (if required), mounting hardware, and pictorial installation guide.

Lamp Wattage	No. of Taps	Input Voltage	Catalog Number	ANSI Code
50W	Quad	120/208/240/277V	MH-50X-Q-KIT	M110
70W	Quad	120/208/240/277V	MH-70X-Q-KIT	M98
100W	Quad	120/208/240/277V	MH-100X-Q-KIT	M90
150W	Quad	120/208/240/277V	MH-150X-Q-KIT	M102
175W	Quad	120/208/240/277V	MH-175A-Q-KIT	M57
175W	5-Tap	120/208/240/277/480V	MH-175A-P-KIT	M57
250W	Single	480V	MH-250A-480-KIT	M58
250W	Quad	120/208/240/277V	MH-250A-Q-KIT	M58
250W	5-Tap	120/208/240/277/480V	MH-250A-P-KIT	M58
400W	Single	480V	MH-400A-480-KIT	M59
400W	Quad	120/208/240/277V	MH-400A-Q-KIT	M59
400W	5-Tap	120/208/240/277/480V	MH-400A-P-KIT	M59
1000W	Single	480V	MH-1000A-480-KIT	M47
1000W	Quad	120/208/240/277V	MH-1000A-Q-KIT	M47
1000W	5-Tap	120/208/240/277/480V	MH-1000A-P-KIT	M47
1500W	Quad	120/208/240/277V	MH-1500A-Q-KIT	M48
1500W	5-Tap	120/208/240/277/480V	MH-1500A-P-KIT	M48

IGNITORS

Catalog Number	Lamp Type	Wattage	Type
IGN-XG-04	Probe Start Metal Halide	50-150W	HX

CAPACITORS

Catalog Number	Lamp Type	Wattage	Microfarad	Voltage	Type
CAP-50MH	Metal Halide	50W	6µF	280V	Dry Film
CAP-70MH	Metal Halide	70W	8µF	280V	Dry Film
CAP-100MH	Metal Halide	100W	12µF	280V	Dry Film
CAP-150MH	Metal Halide	150W	16µF	280V	Dry Film
CAP-175MH	Metal Halide	175W	10µF	400V	Dry Film
CAP-250MH	Metal Halide	250W	15µF	400V	Dry Film
CAP-400MH	Metal Halide	400W	24µF	400V	Dry Film
CAP-1000MH	Metal Halide	1000W	24µF	480V	Oil Filled
CAP-1500MH	Metal Halide	1500W	32µF	525V	Oil Filled

METAL HALIDE F-CAN BALLASTS

Lamp Wattage	No. of Taps	Input Voltage	Catalog Number	ANSI Code
50W	Dual	120/277V	MH-50X-D-FCAN	M110
70W	Dual	120/277V	MH-70X-D-FCAN	M98
100W	Dual	120/277V	MH-100X-D-FCAN	M90
150W	Dual	120/277V	MH-150X-D-FCAN	M102
175W	Dual	120/277V	MH-175A-D-FCAN	M57/H39
250W	Dual	120/277V	MH-250A-D-FCAN	M58/H37
400W	Dual	120/277V	MH-400A-D-FCAN	M59/H33

PULSE START METAL HALIDE BALLAST KITS

Each kit includes the ballast pre-wired to a properly rated capacitor and ignitor (if required), mounting hardware, and pictorial installation guide.

Lamp Wattage	No. of Taps	Input Voltage	Catalog Number	ANSI Code
175W	Quad	120/208/240/277V	MPS-175A-Q-KIT	M137
	5 Tap	120/208/240/277/480V	MPS-175A-P-KIT	M137
200W	5 Tap	120/208/240/277/480V	MPS-200A-P-KIT	M136
250W	Quad	120/208/240/277V	MPS-250A-Q-KIT	M138
	5 Tap	120/208/240/277/480V	MPS-250A-P-KIT	M138
320W	Quad	120/208/240/277V	MPS-320A-Q-KIT	M132
	5 Tap	120/208/240/277/480V	MPS-320A-P-KIT	M132
350W	Quad	120/208/240/277V	MPS-350A-Q-KIT	M131
	5 Tap	120/208/240/277/480V	MPS-350A-P-KIT	M131
400W	Single	480V	MPS-400A-480-KIT	M135
	Quad	120/208/240/277V	MPS-400A-Q-KIT	M135
	5 Tap	120/208/240/277/480V	MPS-400A-P-KIT	M135
450W	Quad	120/208/240/277V	MPS-450A-Q-KIT	M144
	5 Tap	120/208/240/277/480V	MPS-450A-P-KIT	M144
750W	Quad	120/208/240/277V	MPS-750A-Q-KIT	M149
	5 Tap	120/208/240/277/480V	MPS-750A-P-KIT	M149
1000W	Quad	120/208/240/277V	MPS-1000A-Q-KIT	M141
	5 Tap	120/208/240/277/480V	MPS-1000A-P-KIT	M141

IGNITORS

Catalog Number	Lamp Type	Wattage	Type
IGN-XG-03	Pulse Start Metal Halide	1000W	CWA
IGN-XG-03/A	Pulse Start Metal Halide	750W	CWA
IGN-XG-04	Pulse Start Metal Halide	50-450W	HX

CAPACITORS

Catalog Number	Lamp Type	Wattage	Microfarad	Voltage	Type
CAP-70MH	Metal Halide	70W	8µF	280V	Dry Film
CAP-100MH	Metal Halide	100W	12µF	280V	Dry Film
CAP-150MH	Metal Halide	150W	16µF	280V	Dry Film
CAP-175MPS	Pulse Start Metal Halide	175W	11µF	400V	Dry Film
CAP-200MPS	Pulse Start Metal Halide	200W	15µF	330V	Dry Film
CAP-250MPS	Pulse Start Metal Halide	250W	17µF	400V	Dry Film
CAP-320MPS	Pulse Start Metal Halide	320W	21µF	345V	Dry Film
CAP-350MPS	Pulse Start Metal Halide	350W	22.5µF	345V	Dry Film
CAP-400MPS	Pulse Start Metal Halide	400W	26µF	330V	Dry Film
CAP-450MPS	Pulse Start Metal Halide	450W	26.5µF	400V	Dry Film
CAP-750MPS	Pulse Start Metal Halide	750W	28µF	400V	Oil Filled
CAP-1000MPS	Pulse Start Metal Halide	1000W	24µF	480V	Oil Filled

HIGH PRESSURE SODIUM BALLAST KITS

Each kit includes the ballast pre-wired to a properly rated capacitor and ignitor (if required), mounting hardware, and pictorial installation guide.

Lamp Wattage	No. of Taps	Input Voltage	Catalog Number	ANSI Code
35W	Single	120V	HPS-35R-1-KIT	S76
50W	Single	120V	HPS-50R-1-KIT	S68
70W	Single	120V	HPS-70R-1-KIT	S62
	Quad	120/208/240/277V	HPS-70X-Q-KIT	S62
100W	Single	120V	HPS-100R-1-KIT	S54
	Quad	120/208/240/277V	HPS-100X-Q-KIT	S54
150W	Single	120V	HPS-150R-1-KIT	S55
	Quad	120/208/240/277V	HPS-150X-Q-KIT	S55
250W	Quad	120/208/240/277V	HPS-250A-Q-KIT	S50
	5-Tap	120/208/240/277/480V	HPS-250A-P-KIT	S50
400W	Single	480V	HPS-400A-480-KIT	S51
	Quad	120/208/240/277V	HPS-400A-Q-KIT	S51
	5-Tap	120/208/240/277/480V	HPS-400A-P-KIT	S51
600W	Quad	120/208/240/277V	HPS-600A-Q-KIT	S106
1000W	Quad	120/208/240/277V	HPS-1000A-Q-KIT	S52
	5-Tap	120/208/240/277/480V	HPS-1000A-P-KIT	S52

IGNITORS

Catalog Number	Lamp Type	Wattage	Type
IGN-XG-01	High Pressure Sodium	35-150W	Reactor, HX
IGN-XG-02	High Pressure Sodium	250-400W	CWA
IGN-XG-03	High Pressure Sodium	1000W	CWA
IGN-XG-06	High Pressure Sodium	600W	CWA

CAPACITORS

Catalog Number	Lamp Type	Wattage	Microfarad	Voltage	Type
CAP-70HPS	High Pressure Sodium	70W	7µF	280V	Dry Film
CAP-100HPS	High Pressure Sodium	100W	10µF	280V	Dry Film
CAP-150HPS	High Pressure Sodium	150W	14µF	280V	Dry Film
CAP-250HPS	High Pressure Sodium	250W	35µF	240V	Dry Film
CAP-400HPS	High Pressure Sodium	400W	55µF	300V	Dry Film
CAP-1000HPS	High Pressure Sodium	1000W	26µF	525V	Oil Filled