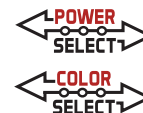




**SIGN HERO 360**  
DIRECT WIRE LED SIGN TUBE



# KT-LEDXXPST8-XXP2SO-8CSK-DW

## LED SIGN LAMP

### DESCRIPTION

LED Sign Lamp | Double-Sided Illumination | Power and Color Select  
Advanced Optical Lens | Rotatable End Caps | Direct-Wire Connection  
Integrated Waterproof Connectors | 120-277V Input

### APPLICATION

Replacement for conventional T12HO and T8HO fluorescent lamps in double-sided sign applications, or as a direct-wire solution for new sign builds using mounting bracket accessories—eliminating the need for socket-powered wiring.



**SAM**



**5 YEAR**  
WARRANTY



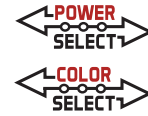
### PRODUCT FEATURES

- Covered by one or more Patents: list available at <https://keystonetech.com/all-products/lamps/linear-led-tubes/sign-hero/patent>
- Keystone Power Select technology (see Performance Specifications for details): 100%, 75%, or 50% output for cabinet depth flexibility
- Keystone Color Select Technology (4000/5000/6500K)
- Supports wider spacing in deeper cabinets, reduced power settings ideal for shallow sign faces
- Designed for retrofit double-sided sign applications and new sign construction
- Built-in flexible waterproof connectors no socket wiring required
- Direct-wire installation with quick-connect design for simplified wiring
- Up to 15% higher lumen output than traditional Sign Hero tubes
- 50,000+ hour rated lifetime
- 120-277V universal input voltage
- Integrated optical lensing ensures even light spread across the face
- Effective 360° beam distribution
- Rotatable end caps for precise light direction
- Over 50% more energy efficient than HO fluorescent lamps
- UL Classified: sign retrofit solution, evaluated to UL 48 / UL 879A standards
- Listed in the UL SAM Manual
- Compatible with Keystone's optional mounting bracket accessories
- Operating temperature range: -30°C/-22°F to 55°C/131°F

\* 150 feet of tubes can run on one feed

### PERFORMANCE SPECIFICATIONS OVERVIEW

Catalog Number	Selectable Wattage	Selectable CCT	Lumens Range	Efficacy	Nominal Length	Input Current	CRI	Socket Type
KT-LED10PST8-18P2SO-8CSK-DW	5-10W	4000K/5000K/6500K	620-1035	120 lm/W	18"	60mA	> 80	R17d
KT-LED12PST8-24P2SO-8CSK-DW	6-12W	4000K/5000K/6500K	800-1380	120 lm/W	24"	90mA		
KT-LED15PST8-30P2SO-8CSK-DW	7-15W	4000K/5000K/6500K	980-1840	120 lm/W	30"	115mA		
KT-LED18PST8-36P2SO-8CSK-DW	9-18W	4000K/5000K/6500K	1275-2300	125 lm/W	36"	140mA		
KT-LED21PST8-42P2SO-8CSK-DW	10-21W	4000K/5000K/6500K	1480-2590	125 lm/W	42"	160mA		
KT-LED23PST8-48P2SO-8CSK-DW	12-23W	4000K/5000K/6500K	1690-2990	122 lm/W	48"	185mA		
KT-LED29PST8-60P2SO-8CSK-DW	14-29W	4000K/5000K/6500K	2060-3740	125 lm/W	60"	230mA		
KT-LED32PST8-64P2SO-8CSK-DW	16-32W	4000K/5000K/6500K	2230-3970	123 lm/W	64"	245mA		
KT-LED37PST8-72P2SO-8CSK-DW	17-37W	4000K/5000K/6500K	2480-4600	125 lm/W	72"	275mA		
KT-LED41PST8-84P2SO-8CSK-DW	21-41W	4000K/5000K/6500K	3030-5405	124 lm/W	84"	325mA		
KT-LED46PST8-96P2SO-8CSK-DW	23-46W	4000K/5000K/6500K	3310-6095	126 lm/W	96"	370mA		
KT-LED50PST8-108P2SO-8CSK-DW	24-50W	4000K/5000K/6500K	3735-6670	121 lm/W	108"	415mA		
KT-LED52PST8-117P2SO-8CSK-DW	25-52W	4000K/5000K/6500K	3975-7130	124 lm/W	117"	440mA		
KT-LED54PST8-120P2SO-8CSK-DW	26-54W	4000K/5000K/6500K	4090-7360	123 lm/W	120"	460mA		

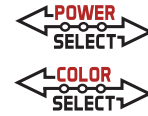


# KT-LEDXXPST8-XXP2SO-8CSK-DW

## LED SIGN LAMP

**PERFORMANCE SPECIFICATION DETAILED**

Catalog Number	Selectable Wattage	Selectable CCT	Lumens	Efficacy	Nominal Length	Input Current	CRI	Socket Type
KT-LED10PST8-18P2SO-8CSK-DW	10W	4000K	973 lm/W	104 lm/W	18"	75mA	> 80	R17d
		5000K	1035 lm/W	104 lm/W		75mA		
		6500K	1035 lm/W	104 lm/W		75mA		
	8W	4000K	846 lm/W	113 lm/W		65mA		
		5000K	900 lm/W	113 lm/W		65mA		
		6500K	900 lm/W	113 lm/W		65mA		
	5W	4000K	583 lm/W	103 lm/W		43mA		
		5000K	620 lm/W	103 lm/W		43mA		
		6500K	620 lm/W	103 lm/W		43mA		
KT-LED12PST8-24P2SO-8CSK-DW	12W	4000K	1297 lm/W	115 lm/W	24"	93mA	> 80	R17d
		5000K	1380 lm/W	115 lm/W		93mA		
		6500K	1380 lm/W	115 lm/W		93mA		
	10W	4000K	1128 lm/W	120 lm/W		80mA		
		5000K	1200 lm/W	120 lm/W		80mA		
		6500K	1200 lm/W	120 lm/W		80mA		
	6W	4000K	752 lm/W	114 lm/W		53mA		
		5000K	800 lm/W	114 lm/W		53mA		
		6500K	800 lm/W	114 lm/W		53mA		
KT-LED15PST8-30P2SO-8CSK-DW	15W	4000K	1730 lm/W	123 lm/W	30"	130mA	> 80	R17d
		5000K	1840 lm/W	123 lm/W		130mA		
		6500K	1840 lm/W	123 lm/W		130mA		
	13W	4000K	1504 lm/W	123 lm/W		111mA		
		5000K	1600 lm/W	123 lm/W		111mA		
		6500K	1600 lm/W	123 lm/W		111mA		
	7W	4000K	921 lm/W	123 lm/W		75mA		
		5000K	980 lm/W	123 lm/W		75mA		
		6500K	980 lm/W	123 lm/W		75mA		
KT-LED18PST8-36P2SO-8CSK-DW	18W	4000K	2162 lm/W	128 lm/W	36"	158mA	> 80	R17d
		5000K	2300 lm/W	128 lm/W		158mA		
		6500K	2300 lm/W	128 lm/W		158mA		
	16W	4000K	1880 lm/W	125 lm/W		135mA		
		5000K	2000 lm/W	125 lm/W		135mA		
		6500K	2000 lm/W	125 lm/W		135mA		
	9W	4000K	1199 lm/W	128 lm/W		128mA		
		5000K	1275 lm/W	128 lm/W		128mA		
		6500K	1275 lm/W	128 lm/W		128mA		

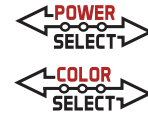


# KT-LEDXXPST8-XXP2SO-8CSK-DW

## LED SIGN LAMP

**PERFORMANCE SPECIFICATION DETAILED (CONTINUED)**

Catalog Number	Selectable Wattage	Selectable CCT	Lumens	Efficacy	Nominal Length	Input Current	CRI	Socket Type
KT-LED21PST8-42P2SO-8CSK-DW	21W	4000K	2435 lm/W	123 lm/W	42"	176mA	> 80	R17d
		5000K	2590 lm/W	123 lm/W		176mA		
		6500K	2590 lm/W	123 lm/W		176mA		
	18W	4000K	2115 lm/W	125 lm/W		150mA		
		5000K	2250 lm/W	125 lm/W		150mA		
		6500K	2250 lm/W	125 lm/W		150mA		
	10W	4000K	1391 lm/W	123 lm/W		100mA		
		5000K	1480 lm/W	123 lm/W		100mA		
		6500K	1480 lm/W	123 lm/W		100mA		
KT-LED23PST8-48P2SO-8CSK-DW	23W	4000K	2811 lm/W	130 lm/W	48"	204mA	> 80	R17d
		5000K	2990 lm/W	130 lm/W		204mA		
		6500K	2992 lm/W	130 lm/W		204mA		
	21W	4000K	2444 lm/W	124 lm/W		175mA		
		5000K	2600 lm/W	124 lm/W		175mA		
		6500K	2600 lm/W	124 lm/W		175mA		
	12W	4000K	1589 lm/W	130 lm/W		116mA		
		5000K	1690 lm/W	130 lm/W		116mA		
		6500K	1690 lm/W	130 lm/W		116mA		
KT-LED29PST8-60P2SO-8CSK-DW	29W	4000K	3516 lm/W	129 lm/W	60"	250mA	> 80	R17d
		5000K	3740 lm/W	129 lm/W		250mA		
		6500K	3740 lm/W	129 lm/W		250mA		
	26W	4000K	3055 lm/W	125 lm/W		213mA		
		5000K	3250 lm/W	125 lm/W		213mA		
		6500K	3250 lm/W	125 lm/W		213mA		
	14W	4000K	1936 lm/W	129 lm/W		143mA		
		5000K	2060 lm/W	129 lm/W		143mA		
		6500K	2060 lm/W	129 lm/W		143mA		
KT-LED32PST8-64P2SO-8CSK-DW	32W	4000K	3732 lm/W	124 lm/W	64"	269mA	> 80	R17d
		5000K	3970 lm/W	124 lm/W		269mA		
		6500K	3970 lm/W	124 lm/W		269mA		
	28W	4000K	3243 lm/W	123 lm/W		230mA		
		5000K	3450 lm/W	123 lm/W		230mA		
		6500K	3450 lm/W	123 lm/W		230mA		
	16W	4000K	2096 lm/W	124 lm/W		153mA		
		5000K	2230 lm/W	124 lm/W		153mA		
		6500K	2230 lm/W	124 lm/W		153mA		

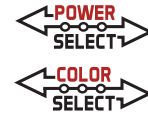


# KT-LEDXXPST8-XXP2SO-8CSK-DW

## LED SIGN LAMP

**PERFORMANCE SPECIFICATION DETAILED (CONTINUED)**

Catalog Number	Selectable Wattage	Selectable CCT	Lumens	Efficacy	Nominal Length	Input Current	CRI	Socket Type
KT-LED37PST8-72P2SO-8CSK-DW	37W	4000K	4324 lm/W	124 lm/W	72"	306mA	> 80	R17d
		5000K	4600 lm/W	124 lm/W		306mA		
		6500K	4600 lm/W	124 lm/W		306mA		
	31W	4000K	3760 lm/W	129 lm/W		261mA		
		5000K	4000 lm/W	129 lm/W		261mA		
		6500K	4000 lm/W	129 lm/W		261mA		
	17W	4000K	2331 lm/W	124 lm/W		174mA		
		5000K	2480 lm/W	124 lm/W		174mA		
		6500K	2480 lm/W	124 lm/W		174mA		
KT-LED41PST8-84P2SO-8CSK-DW	41W	4000K	5081 lm/W	132 lm/W	84"	352mA	> 80	R17d
		5000K	5405 lm/W	132 lm/W		352mA		
		6500K	5405 lm/W	132 lm/W		352mA		
	37W	4000K	4418 lm/W	127 lm/W		300mA		
		5000K	4700 lm/W	127 lm/W		300mA		
		6500K	4700 lm/W	127 lm/W		300mA		
	21W	4000K	2848 lm/W	132 lm/W		201mA		
		5000K	3030 lm/W	132 lm/W		201mA		
		6500K	3030 lm/W	132 lm/W		201mA		
KT-LED46PST8-96P2SO-8CSK-DW	46W	4000K	5729 lm/W	133 lm/W	96"	408mA	> 80	R17d
		5000K	6095 lm/W	133 lm/W		408mA		
		6500K	6095 lm/W	133 lm/W		408mA		
	42W	4000K	4982 lm/W	126 lm/W		348mA		
		5000K	5300 lm/W	126 lm/W		348mA		
		6500K	5300 lm/W	126 lm/W		348mA		
	23W	4000K	3111 lm/W	132 lm/W		233mA		
		5000K	3310 lm/W	132 lm/W		233mA		
		6500K	3310 lm/W	132 lm/W		233mA		
KT-LED50PST8-108P2SO-8CSK-DW	50W	4000K	6270 lm/W	133 lm/W	120"	445mA	> 80	R17d
		5000K	6670 lm/W	133 lm/W		445mA		
		6500K	6670 lm/W	133 lm/W		445mA		
	45W	4000K	5452 lm/W	135 lm/W		380mA		
		5000K	5800 lm/W	135 lm/W		380mA		
		6500K	5800 lm/W	135 lm/W		380mA		
	25W	4000K	3511 lm/W	133 lm/W		254mA		
		5000K	3735 lm/W	133 lm/W		254mA		
		6500K	3735 lm/W	133 lm/W		254mA		



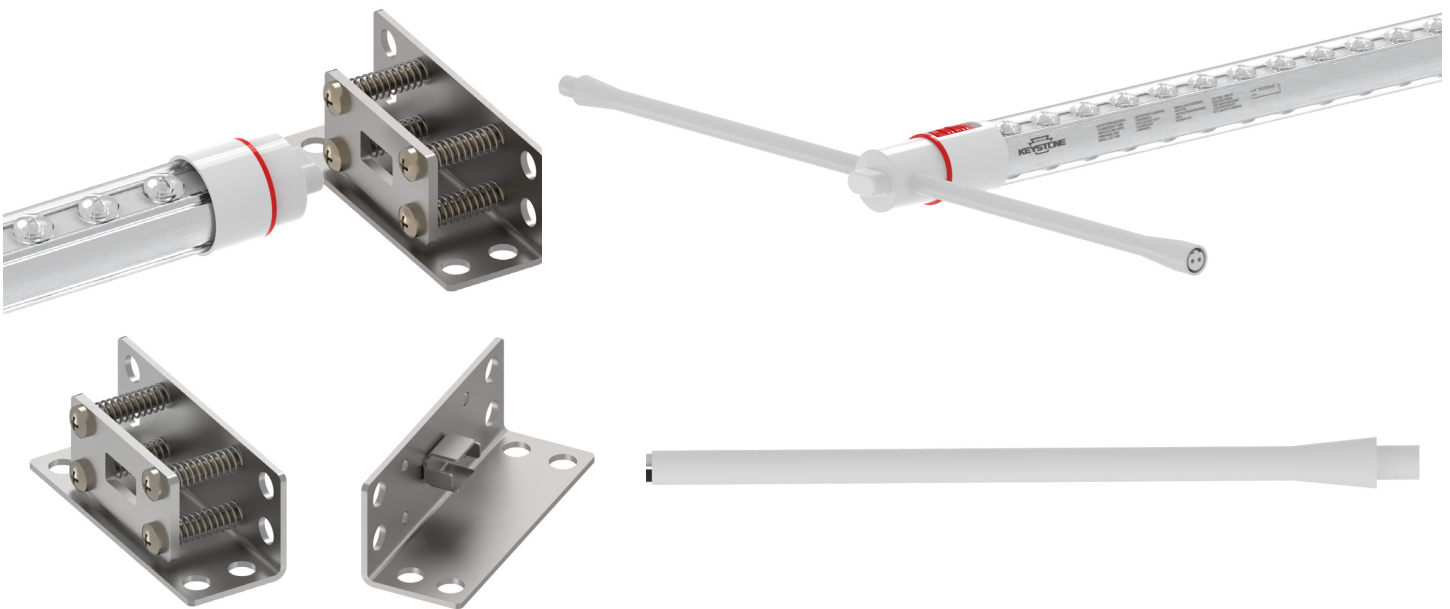
# KT-LEDXXPST8-XXP2SO-8CSK-DW

## LED SIGN LAMP

**PERFORMANCE SPECIFICATION DETAILED (CONTINUED)**

Catalog Number	Selectable Wattage	Selectable CCT	Lumens	Efficacy	Nominal Length	Input Current	CRI	Socket Type
KT-LED52PST8-117P2SO-8CSK-DW	52W	4000K	6720 lm/W	137 lm/W	117"	473mA	> 80	R17d
		5000K	7130 lm/W	137 lm/W		473mA		
		6500K	7130 lm/W	137 lm/W		473mA		
	45W	4000K	5828 lm/W	138 lm/W		404mA		
		5000K	6200 lm/W	138 lm/W		404mA		
		6500K	6200 lm/W	138 lm/W		404mA		
	29W	4000K	3737 lm/W	137 lm/W		270mA		
		5000K	3975 lm/W	137 lm/W		270mA		
		6500K	3975 lm/W	137 lm/W		270mA		
KT-LED54PST8-120P2SO-8CSK-DW	54W	4000K	6918 lm/W	136 lm/W	120"	491mA	> 80	R17d
		5000K	7360 lm/W	136 lm/W		491mA		
		6500K	7360 lm/W	136 lm/W		491mA		
	47W	4000K	6016 lm/W	136 lm/W		419mA		
		5000K	6400 lm/W	136 lm/W		419mA		
		6500K	6400 lm/W	136 lm/W		419mA		
	30W	4000K	3845 lm/W	136 lm/W		280mA		
		5000K	4090 lm/W	136 lm/W		280mA		
		6500K	4090 lm/W	136 lm/W		280mA		

**PRODUCT IMAGES**



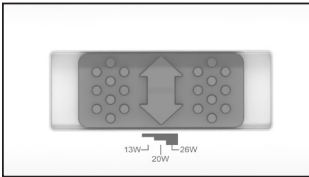


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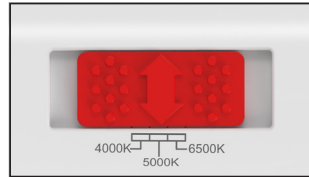
## LED SIGN LAMP

### KEY FEATURES

#### POWER AND COLOR SELECATBILITY

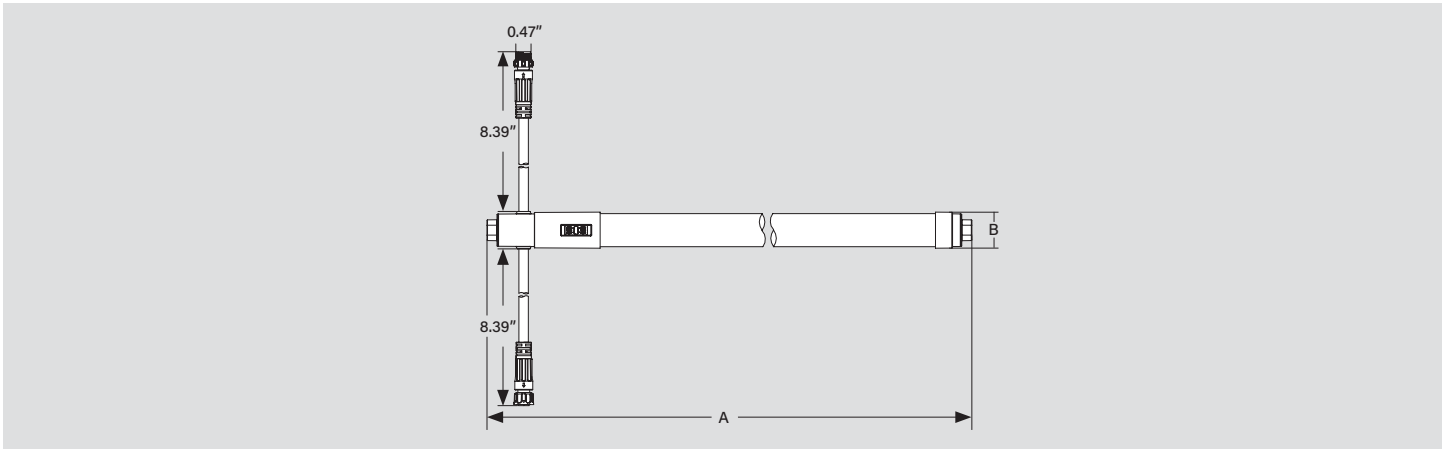


- Keystone Power Select technology (see Performance Specifications for details): 100%, 75%, or 50% output for cabinet depth flexibility

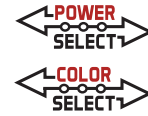


- Keystone Color Select Technology (4000/5000/6500K)

### PHYSICAL SPECIFICATIONS



Catalog Number	Overall Length (A)			Diameter (B)	Replacement Fluorescent Actual Length	Common Fluorescent Replacement
	Nominal Length	Min.	Max.			
KT-LED10PST8-18P2SO-8CSK-DW	18"	15.81"	11.16"	1.12"	~17.78"	F18T12 / F18T12HO
KT-LED12PST8-24P2SO-8CSK-DW	24"	21.81"	17.16"		~23.78"	F24T12 / F24T12HO
KT-LED15PST8-30P2SO-8CSK-DW	30"	27.81"	23.16"		~29.78"	F30T12 / F30T12HO
KT-LED18PST8-36P2SO-8CSK-DW	36"	33.81"	29.16"		~35.78"	F36T12 / F36T12HO
KT-LED21PST8-42P2SO-8CSK-DW	42"	39.81"	35.16"		~41.78"	F42T12 / F42T12HO (less common)
KT-LED23PST8-48P2SO-8CSK-DW	48"	45.81"	41.16"		~45.78"	F48T12HO
KT-LED29PST8-60P2SO-8CSK-DW	60"	57.8"	53.14"		~57.78"	F60T12HO
KT-LED32PST8-64P2SO-8CSK-DW	64"	61.81"	57.16"		~61.78"	Custom sign sizes (fluoro rare)
KT-LED37PST8-72P2SO-8CSK-DW	72"	69.81"	65.16"		~69.78"	F72T12HO
KT-LED41PST8-84P2SO-8CSK-DW	84"	81.81"	77.16"		~81.78"	F84T12HO
KT-LED46PST8-96P2SO-8CSK-DW	96"	93.81"	89.16"		~93.78"	F96T12HO
KT-LED50PST8-108P2SO-8CSK-DW	108"	105.81"	101.16"		~105.78"	F108T12HO (rare, regional)
KT-LED52PST8-117P2SO-8CSK-DW	117"	114.81"	110.16"		~114.78"	F117T12HO (rare, often mismeasured)
KT-LED54PST8-120P2SO-8CSK-DW	120"	117.81"	113.16"		~117.78"	F120T12HO



# KT-LEDXXPST8-XXP2SO-8CSK-DW

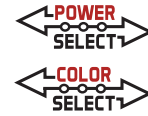
## LED SIGN LAMP

### ACCESSORIES (SOLD SEPARATELY)

CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
KTSP-10KV	External surge protector; Input voltage 120 -277V; Max. peak current: 10KV; IP65 Rated	890949012208	FXK-84
KT-SH-4L-CABLE-KIT	Cable kit for 1-4 lamp applications; designed to prevent lamp sagging for horizontal applications over 8' long; includes options for mounting via magnets or self-drilling fasteners	890949019375	ZHK-62
KT-SH-6L-CABLE-KIT	Cable kit for 1-6 lamp applications. Designed to prevent lamp sagging for horizontal applications over 8' long; Includes options for mounting via magnets or self-drilling fasteners	890949019382	KES-18
KT-SH-DW-MB	Mounting bracket kit for Sign Hero Direct; includes (1) stationary and (1) spring-loaded aluminum bracket for 90° installations	843654174860	BGW-23
KT-SH-DW-EXT	12" extension cable for Sign Hero Direct; includes waterproof connectors on both ends for tube-to-tube connection	843654174877	QPR-26
KT-SH-DW-LC	6' lead cable for Sign Hero Direct; includes a waterproof connector on one end for connection to power input	843654174884	QUA-88

### ORDERING INFORMATION

CATALOG NUMBER	CARTON QTY	UPC	EASY CODE
KT-LED10PST8-18P2SO-8CSK-DW	9	843654174723	UES-76
KT-LED12PST8-24P2SO-8CSK-DW		843654174730	AIU-37
KT-LED15PST8-30P2SO-8CSK-DW		843654174747	HMD-57
KT-LED18PST8-36P2SO-8CSK-DW		843654174754	KIO-16
KT-LED21PST8-42P2SO-8CSK-DW		843654174761	MQA-37
KT-LED23PST8-48P2SO-8CSK-DW		843654174778	QUV-79
KT-LED29PST8-60P2SO-8CSK-DW		843654174785	MRJ-41
KT-LED32PST8-64P2SO-8CSK-DW		843654174792	JOO-42
KT-LED37PST8-72P2SO-8CSK-DW		843654174808	ICE-69
KT-LED41PST8-84P2SO-8CSK-DW		843654174815	OVC-23
KT-LED46PST8-96P2SO-8CSK-DW		843654174822	UHD-38
KT-LED50PST8-108P2SO-8CSK-DW		843654174839	AWN-76
KT-LED52PST8-117P2SO-8CSK-DW		843654174846	BDC-48
KT-LED54PST8-120P2SO-8CSK-DW		843654174853	XKB-75



# KT-LEDXXPST8-XXP2SO-8CSK-DW

## LED SIGN LAMP

**CATALOG NUMBER BREAKDOWN**

# KT-LEDXXPST8-XXP2SO-8CSK-DW

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

<p><b>1</b> Keystone Technologies</p> <p><b>2</b> LED Lamp</p> <p><b>3</b> Max Wattage</p> <p><b>4</b> Power Select</p> <p><b>5</b> Lamp Type</p> <p><b>6</b> Nominal Length</p> <p><b>7</b> Plastic</p> <p><b>8</b> Double - Sided</p> <p><b>9</b> Optical Lens</p> <p><b>10</b> 80 CRI</p> <p><b>11</b> Color Select</p> <p><b>12</b> Color Select Designation</p> <p><b>13</b> Direct Wire</p>	<p><b>3</b> Max Wattage</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">8</td><td>10W</td></tr> <tr><td>12</td><td>12W</td></tr> <tr><td>15</td><td>15W</td></tr> <tr><td>18</td><td>18W</td></tr> <tr><td>21</td><td>21W</td></tr> <tr><td>24</td><td>23W</td></tr> <tr><td>30</td><td>29W</td></tr> <tr><td>32</td><td>32W</td></tr> <tr><td>36</td><td>37W</td></tr> <tr><td>43</td><td>41W</td></tr> <tr><td>48</td><td>46W</td></tr> <tr><td>54</td><td>50W</td></tr> <tr><td>58</td><td>52W</td></tr> <tr><td>60</td><td>54W</td></tr> </table>	8	10W	12	12W	15	15W	18	18W	21	21W	24	23W	30	29W	32	32W	36	37W	43	41W	48	46W	54	50W	58	52W	60	54W	<p><b>6</b> Nominal Length</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">18</td><td>18"</td></tr> <tr><td>24</td><td>24"</td></tr> <tr><td>30</td><td>30"</td></tr> <tr><td>36</td><td>36"</td></tr> <tr><td>42</td><td>42"</td></tr> <tr><td>48"</td><td>48"</td></tr> <tr><td>60</td><td>60"</td></tr> <tr><td>64</td><td>64"</td></tr> <tr><td>72</td><td>72"</td></tr> <tr><td>84</td><td>84"</td></tr> <tr><td>96</td><td>96"</td></tr> <tr><td>108</td><td>108"</td></tr> <tr><td>117</td><td>117"</td></tr> <tr><td>120</td><td>120"</td></tr> </table>	18	18"	24	24"	30	30"	36	36"	42	42"	48"	48"	60	60"	64	64"	72	72"	84	84"	96	96"	108	108"	117	117"	120	120"	<p><b>12</b> Color Select Designation</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td style="width: 20px;">K</td><td>4000/5000/6500K</td></tr> </table>	K	4000/5000/6500K
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