

## HLS House Lighting System

T-BAR RECESSED MOUNT

REMOTE POWER SUPPLY



### APPLICATION

The House Lighting System (HLS) is designed to illuminate spaces requiring several lighting scenarios, such as theater or auditorium venues. Based on the Tempo CLiP<sup>®</sup> (Configurable Lighting Platform), luminaires may be configured with multiple 6"-12" lighting modules, each with different light distributions and/or intensity. Modules may be controlled with separate circuits and dimming controls to further tailor scenes. A typical cinema application would include luminaires configured with High Lumen modules for theater cleaning and High Uniformity dimming modules for house lighting, trailer and movie screening.

The HLS is available in two different platforms, one designed for recessed mounting in a T-Bar ceiling grid and the other for continuous surface or suspension mounting (see separate surface mount spec sheets). The low voltage, remotely powered system centralizes control and servicing.

### CONSTRUCTION

- Extruded aluminum channel
- Die-cast aluminum wiring splice box
- Thermally optimized die-cast aluminum light module housings
- Push wire connectors for simplified installation
- CSA damp location listed
- IC rated

### OPTICS / LENS / DIFFUSER

- High Lumen Cleaning Light modules (A) consist of a 12" module. A lightly frosted dome lens, coupled with wide beam optics direct a LED array.
- High Uniformity House Light modules (B) consist of a pair of 6" modules or a single 6" module with a dome lens and high diffusion film over a high density array of LEDs.

### POWER SYSTEM

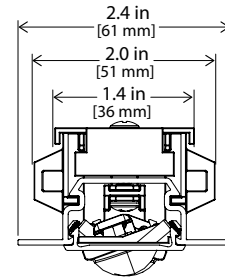
- Utilizes remote, low voltage DC power supply
- When a combination of High Lumen Cleaning Light and High Uniformity House Light modules are specified, the standard wiring configuration is dual circuit, with all High Lumen (A) modules on one circuit and High Uniformity (B) on the second circuit.

### PERFORMANCE

- Light output varies by configuration, see performance summary
- Lumen maintenance is greater than 85% at 86,000 hours for all product configurations (L85 at 86,000 hours)

### LIGHT CHARACTERISTICS

- Available in 2200K, 2700K, 3000K, 3500K, 4000K correlated color temperature. A different color temperature may be selected for High Lumen Cleaning Light modules (A) and High Uniformity House Light modules (B).
- Typical CRI of 80+
- LED's are selected and placed on the printed circuit boards via Tempo Industries' UniBin<sup>®</sup> process which ensures consistent hue and color within the entire installation. Color variations are held to a minimum, within a 2-step MacAdam ellipse.



### WARRANTY

Tempo provides a 5-year limited warranty. A 10-year limited warranty will apply when installed by a Tempo Certified Installer.



### PERFORMANCE SUMMARY All data nominal

Module Configuration		Watts/Module	Delivered Lumens
<b>A1</b> Circuit A	<b>Cleaning Light</b> , 12" module, wide beam optics, LED array (3500K test data shown)	12 W	700 lm
<b>B3</b> Circuit B	<b>House Light</b> , 6" pair (12" total), high uniformity dome lens, dense LED array (2700K test data shown)	10 W	720 lm
<b>B4</b> Circuit B	<b>House Light</b> , 6" single module, high uniformity dome lens, dense LED array (2700K test data shown)	5 W	360 lm

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### ORDERING INFORMATION

Example: **Example: HLS-R-4-A135-B330-A135-BK**

HLS Recessed, 4 ft, A135 [High Lumen Cleaning Light, 6" pair (12" total), 3500K], B330 [High Uniformity House Light, 6" pair (12" total), 3000K], A135 [High Lumen Cleaning Light, 6" pair (12" total), 3500K], Black

HLS									
PLATFORM			LIGHT MODULE CONFIGURATION <sup>3</sup>						
Series	Mounting	Fixture Length	Light Module Lens/LED Array				Color Temp	Finish	
HLS	R Recessed T-Bar	2 2ft <sup>1</sup>	<b>A1</b> Circuit 1 Option - High Lumen Cleaning Light, 12" module, wide beam optics, standard LED array				22 2200K 27 2700K 30 3000K 35 3500K 40 4000K	<b>WH</b> White <b>BK</b> Black	
		4 4ft <sup>2</sup>	<b>B3</b> Circuit 2 Option - High Uniformity House Light, 6" pair (12" total), high uniformity dome lens, dense LED array <b>B4</b> Circuit 2 Option - High Uniformity House Light, 6" single module, high uniformity dome lens, dense LED array						

NOTES:

- (1) A 2ft luminaire may consist of a combination of light modules totaling 18" maximum.
- (2) A 4ft luminaire may consist of a combination of light modules totaling 42" maximum.
- (3) When a combination of modules are specified, the standard wiring configuration is dual circuit, with all Cleaning Lights (A) on one circuit and House Lights (B) on the second circuit.

### SYSTEM INTEGRATION ACCESSORIES

POWER ENCLOSURE Power Supplies (maximum of 5) in 48"x4"x4" Enclosure		
	<b>PWR-ENC-24/X-36T/Y-48</b>	X = Quantity of 100W (24V) Non-Dimming Power Supplies for Cleaning Light modules (A) Y = Quantity of 40W (36V) Triac Dimming Power Supplies for House Light modules (B) Lutron Hi-lume 1% 2-wire LED driver (120V forward phase) - LTEA2W

POWER SUPPLIES		
	<b>PWR-UNV-EM-100-Z</b>	120-277V AC Input, 24V DC Output, 100W, 0-10V Dimming (dim to under 10%); 1.9"W x 1.3"H x 9.2"L
	<b>PWR-UNV-EM-060-Z</b>	120-277V AC Input, 24V DC Output, 60W, 0-10V Dimming (dim to under 10%); 1.7"W x 1.2"H x 9.5"L
	<b>PWR-UNV-EN-100-Z</b>	120-277V AC Input, 36V DC Output, 100W, 0-10V Dimming (dim to under 10%); 1.9"W x 1.3"H x 9.2"L
	<b>PWR-UNV-EN-060-Z</b>	120-277V AC Input, 36V DC Output, 60W, 0-10V Dimming (dim to under 10%); 1.7"W x 1.2"H x 9.5"L

POWER FEED CABLE		
	<b>WIR-16-2BLU/2RED-PR</b>	Plenum rated cable, 16 gauge, 4 wires- 2 Blue / 2 Red, 300ft per reel

SURGE SUPPRESSION DEVICE A Tempo furnished surge suppression device must be installed on each supplying branch circuit to comply with Tempo's warranty terms		
	<b>SSD-120</b>	120V Branch Circuit
	<b>SSD-277</b>	277V Branch Circuit

POWER INVERTERS Tempo's power inverters supply battery power backup to designated emergency lighting power supplies.		
	<b>PWR-INV-125-120</b>	Power Inverter, 125W, 120V Input/Output
	<b>PWR-INV-250-120</b>	Power Inverter, 250W, 120V Input/Output
	<b>PWR-INV-375-120277</b>	Power Inverter, 375W, 120V/120V or 277V/277V Input/Output

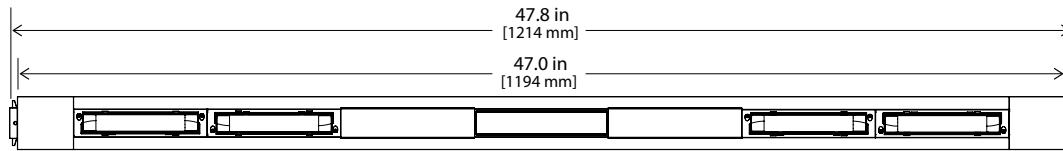
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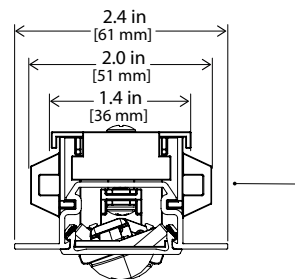
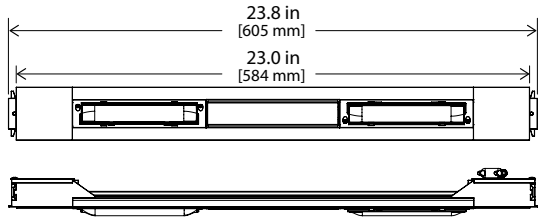
REMOTE POWER SUPPLY

### DIMENSIONAL INFORMATION - RECESSED MOUNTED

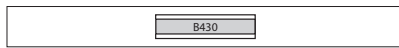
#### 4' LUMINAIRE



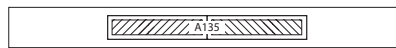
#### 2' LUMINAIRE



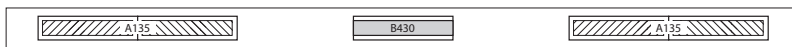
### SAMPLE CONFIGURATIONS



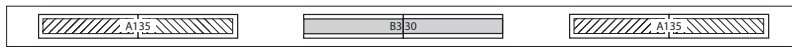
HLS-R-2-B430-BK  
HLS Recessed, 2ft, B430 [High Uniformity **House Light**, 6" single, 3000K], Black



HLS-R-2-A135-BK  
HLS Recessed, 2ft, A135 [High Lumen **Cleaning Light**, 12", 3500K], Black



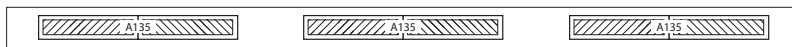
HLS-R-4-A135-B430-A135-BK  
HLS Recessed, 4ft, A135 [High Lumen **Cleaning Light**, 12", 3500K], B430 [High Uniformity **House Light**, 6" single, 3000K], A135 [High Lumen **Cleaning Light**, 12", 3500K] Black



HLS-R-4-A135-B330-A135-BK  
HLS Recessed, 4ft, A135 [High Lumen **Cleaning Light**, 12", 3500K], B330 [High Uniformity **House Light**, 6" pair (12" total), 3000K], A135 [High Lumen **Cleaning Light**, 12", 3500K], Black



HLS-R-4-A135-A135-BK  
HLS Recessed, 4ft, A135 [High Lumen **Cleaning Light**, 12", 3500K], A135 [High Lumen **Cleaning Light**, 12", 3500K], Black



HLS-R-4-A135-A135-A135-BK  
HLS Recessed, 4ft, A135 [High Lumen **Cleaning Light**, 12", 3500K], A135 [High Lumen **Cleaning Light**, 12", 3500K], A135 [High Lumen **Cleaning Light**, 12", 3500K], Black

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