

## HLS House Lighting System

T-BAR RECESSED MOUNT - 2 CIRCUIT  
24VDC REMOTE POWER SUPPLY



### APPLICATION

The House Lighting System (HLS) is a ceiling mounted luminaire designed to illuminate spaces requiring several lighting scenarios, such as theater or auditorium venues. Luminaires may be configured with multiple 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 Recessed Mount is designed for recessed mounting in a T-Bar ceiling grid. Also available, a surface mount option for continuous surface or suspension mount., (see Surface Mount spec sheet). HLA centralizes control and servicing by utilizing a low voltage, remotely powered system.

### CONSTRUCTION

- Extruded aluminum channel
- Thermally optimized die-cast aluminum light module housings
- Plug and play connectors for simplified installation
- CSA damp location listed

### OPTICS / LENS / DIFFUSER

- High Lumen Cleaning Light modules (C) consist of a 12" module with a lightly frosted dome lens for wide beam spreads.
- High Uniformity House Light modules (H) consist of a 12" modules with a dome lens and high diffusion film over a high density array of LEDs.

### POWER SYSTEM

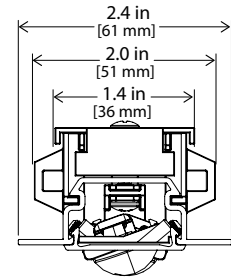
- Utilizes remote, low voltage 24VDC power supply, 120V
- Dual circuit design, with all Cleaning Light (C) modules on one non-dimming circuit and House Light (H) on second circuit for Triac or ELV dimming.

### PERFORMANCE

- Light output varies by configuration, see performance summary
- Fully dimmable House Light modules allow for different scenes such as Trailer screening, Movie screening and Intermissions.
- Operating temperature range of -20°C to 50°C

### LIGHT CHARACTERISTICS

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



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**Buy American**



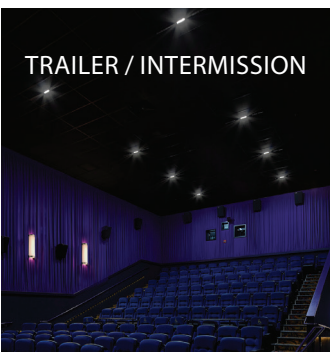
### WARRANTY

Tempo provides a 2-year limited warranty. A 5-year limited warranty will apply when installed by a Tempo Certified Installer.

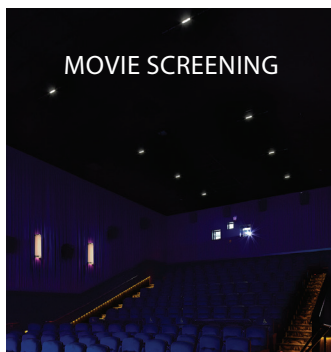
**86,000 HOURS**

**L85 LUMEN MAINTENANCE**

LED Luminaires will reach 85% of initial lumen output at or beyond 86,000 hours at 25°C.



TRAILER / INTERMISSION



MOVIE SCREENING



CLEANING

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### 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, (3500K test data shown)	12 W	1200 lm
<b>B3</b> Circuit B	<b>House Light</b> , 6" pair (12" total), high uniformity dome lens, (2700K test data shown)	10 W	850 lm
<b>B4</b> Circuit B	<b>House Light</b> , 6" single module, high uniformity dome lens, (2700K test data shown)	5 W	360 lm

### ORDERING INFORMATION (See Page 4 for sample configuration references)

4ft Example: HLS-24-R-4-A135-B330-A135-BK

2ft Example: HLS-24-R-2-A135-B430-BK

HLS-24	R		LIGHT MODULE CONFIGURATION <sup>3</sup>		
Series	Mounting	Fixture Length	Light Module Lens/LED Array	Color Temp	Finish
House Lighting System 24VDC	<b>R</b> Recessed T-Bar	<b>2</b> 2ft <sup>1</sup> <b>4</b> 4ft <sup>2</sup>	<b>A1</b> Circuit 1 - High Lumen Cleaning Light, 12" module, wide beam optics <b>B3</b> Circuit 2 Option - High Uniformity House Light, 6" pair (12" total), high uniformity dome lens <b>B4</b> Circuit 2 Option - High Uniformity House Light, 6" single module, high uniformity dome lens	<b>22</b> 2200K <b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K	<b>WH</b> White <b>BK</b> Black

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.

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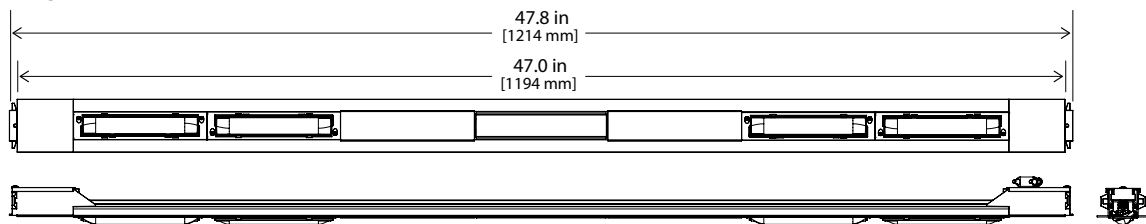
24VDC REMOTE POWER SUPPLY

### SYSTEM INTEGRATION ACCESSORIES

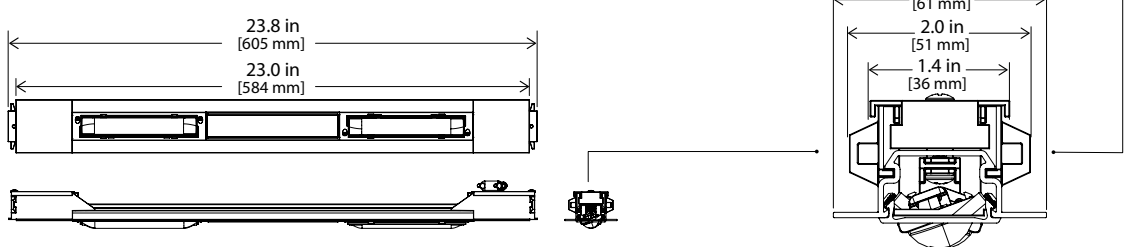
24" POWER ENCLOSURE WITH LED DRIVERS		
<b>PWR-ENC - 24/X - 24T/Y -24</b>	X = Quantity of 100W, 24VDC (120V input) Non-Dimming Drivers for Cleaning Light modules (C) Y = Quantity of 100W 24VDC (120V input) Triac & ELV Dimming Drivers for House Light modules (H) <i>Maximum of 2 Drivers In One 24" x 4" x 4" Power Enclosure</i>	
48" POWER ENCLOSURE WITH LED DRIVERS		
<b>PWR-ENC - 24/X - 24T/Y -48</b>	X = Quantity of 100W, 24VDC (120V input) Non-Dimming Drivers for Cleaning Light modules (C) Y = Quantity of 100W 24VDC (120V input) Triac & ELV Dimming Drivers for House Light modules (H) <i>Maximum of 4 Drivers In One 48" x 4" x 4" Power Enclosure</i>	
TriDim DIMMING & POWER ENCLOSURE		
Dim linear LED with legacy Incandescent Triac dimmers not directly compatible with LED systems		
<b>PWR-TDIM-100-24</b>	Tri-Dim Triac dimming adapter, 120V input, 100W 24VDC driver output - (see TriDim spec sheet)	
<b>PWR-TDIM-200-24</b>	Tri-Dim Triac dimming adapter, 120V input, 2 x 100W 24VDC driver outputs - (see TriDim spec sheet)	
2-CIRCUIT 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		
Tempo furnished surge suppression device must be installed on each supplying branch circuit to comply with 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-110-120</b>	Power Inverter, 110W, 120V Input/Output	
<b>PWR-INV-225-120</b>	Power Inverter, 225W, 120V Input/Output	
<b>PWR-INV-350-120277</b>	Power Inverter, 350W, UNV Input/120V or 277V Output	

### DIMENSIONAL INFORMATION

#### 4' LUMINAIRE



#### 2' LUMINAIRE

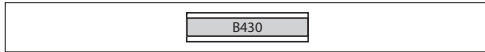


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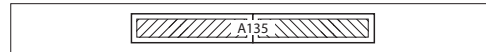
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### SAMPLE CONFIGURATIONS - 2FT

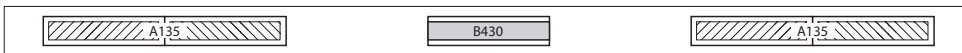


HLS-24-R-2-B430-(color)  
 HLS Recessed, 2ft,  
 B430 [High Uniformity **House Light**, 6" single, 3000K]

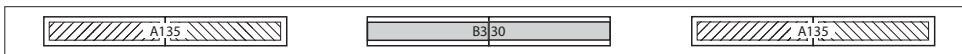


HLS-R-2-A135-(color)  
 HLS Recessed, 2ft,  
 A135 [High Lumen **Cleaning Light**, 12", 3500K]

### SAMPLE CONFIGURATIONS - 4FT



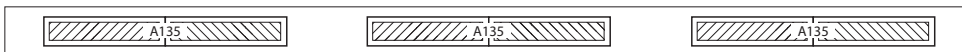
HLS-24-R-4-A135-B430-A135-(color)  
 A135 [High Lumen **Cleaning Light**, 12", 3500K]  
 B430 [High Uniformity **House Light**, 6" single, 3000K]  
 A135 [High Lumen **Cleaning Light**, 12", 3500K]



HLS-24-R-4-A135-B330-A135-(color)  
 A135 [High Lumen **Cleaning Light**, 12", 3500K]  
 B330 [High Uniformity **House Light**, 6" pair (12" total), 3000K]  
 A135 [High Lumen **Cleaning Light**, 12", 3500K]



HLS-R-4-A135-A135-(color)  
 A135 [High Lumen **Cleaning Light**, 12", 3500K]  
 A135 [High Lumen **Cleaning Light**, 12", 3500K]



HLS-24-R-4-A135-A135-A135-(color)  
 A135 [High Lumen **Cleaning Light**, 12", 3500K]  
 A135 [High Lumen **Cleaning Light**, 12", 3500K]  
 A135 [High Lumen **Cleaning Light**, 12", 3500K]

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