



STxx-865-yS

Description: LED Sign Tube

- Simple and easy installation
- Long life with high efficacy
- Integrated heat sink for cool operation
- Class 2 rating simplifies wiring



Ordering Code	Nominal Specification					
	Nom. Length	Configuration	Voltage (V)	Initial Lumens ⁽¹⁾	Power (W)	Lm/W
ST24-865-SS004C	2 ft	Single Sided	24	775	6	129
ST24-865-DS004C	2 ft	Double Sided	24	1,550	12	129
ST36-865-SS004C	3 ft	Single Sided	24	1,163	9	129
ST36-865-DS004C	3 ft	Double Sided	24	2,325	18	129
ST48-865-SS004C	4 ft	Single Sided	24	1,550	12	129
ST48-865-DS004C	4 ft	Double Sided	24	3,100	24	129
ST60-865-SS004C	5 ft	Single Sided	24	1938	15	129
ST60-865-DS004C	5 ft	Double Sided	24	3875	30	129
ST72-865-SS004C	6 ft	Single Sided	24	2,325	18	129
ST72-865-DS004C	6 ft	Double Sided	24	4,650	36	129
ST84-865-SS004C	7 ft	Single Sided	24	2,713	21	129
ST84-865-DS004C	7 ft	Double Sided	24	5,425	42	129
ST96-865-SS004C	8 ft	Single Sided	24	3,100	24	129
ST96-865-DS004C	8 ft	Double Sided	24	6,200	48	129
ST108-865-SS004C	9 ft	Single Sided	24	3,488	27	129
ST108-865-DS004C	9 ft	Double Sided	24	6,975	54	129
ST120-865-SS004C	10 ft	Single Sided	24	3,875	30	129
ST120-865-DS004C	10 ft	Double Sided	24	7,750	60	129

(1) MID Flux Bin Values are shown for CCT of 6500K. Tolerance of ±6.5% at 25°C

(2) See page 2 for detailed mechanical dimensions

General Performance Specifications

- Lumen Maintenance : L85 > 60Khrs @ 25C Ambient
- Color Consistency: <4 SDCM (6500K)

Application:

- Min. Ambient Operating Temp.: -22°F, -30°C
- Max. Ambient Operating Temp.: 140°F, 60°C

Regulatory

- UL8750 - CSA250.13-14

Recommended Drivers

Driver Part Number	Discription
L24V100UNV-A	White Can
L24V100UNV-Q	IP67 Sealed Can

Notes:

- 5 Year Limited Warranty
- Power consumption and photometric performance are typical values
- Lumen maintenance value is based on LM80 testing and TM-21 calculation projections.



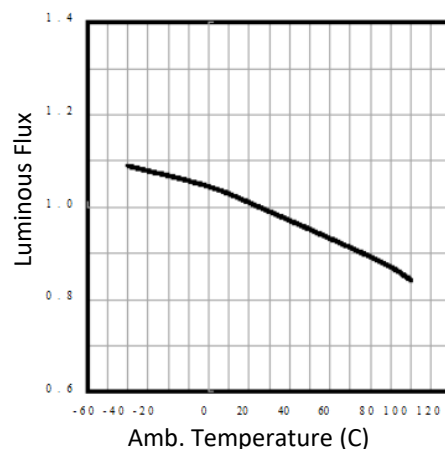
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Installation Guidelines

- This LED sign tube is to be mounted using standard R17D recessed double contact (RDC) lampholders. The spring tension will hold the tube in place. Lampholders are not used for electrical connections
- Leads that exit the end of the tube are used for connection to the 24Vdc supply.
- Tube(s) may be wired individually to the driver or connected end to end in a daisy chain fashion.
- It is only necessary to connect one end of the tube's leads to the power supply. Leads on the opposite end are at the same electrical potential and can be connected in parallel to another module or capped individually.

Relative Lumens vs. Temperature



Mechanical Dimensions

Dimensions	Dim. A	Dim. B
ST24-865-xx	21.8"	21.0"
ST36-865-xx	33.8"	33.0"
ST48-865-xx	45.8"	45.0"
ST60-865-xx	57.8"	57.0"
ST72-865-xx	69.8"	69.0"
ST84-865-xx	81.8"	81.0"
ST96-865-xx	93.8"	93.0"
ST108-865-xx	105.1"	104.3"
ST120-865-xx	117.1"	116.3"

Diameter: 1.5" **Lead Length:** 8" Each

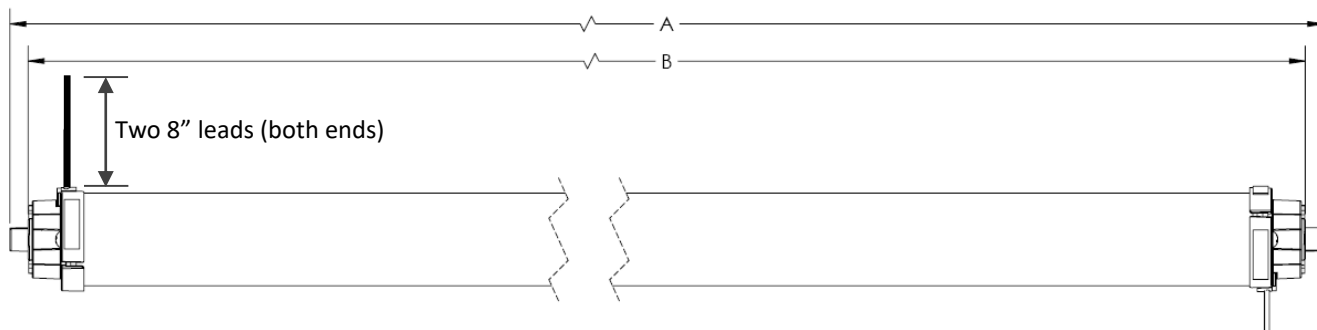
Carton Quantity: 4 Pieces



Lead Wire Egress



RDC (R17D) Endcap



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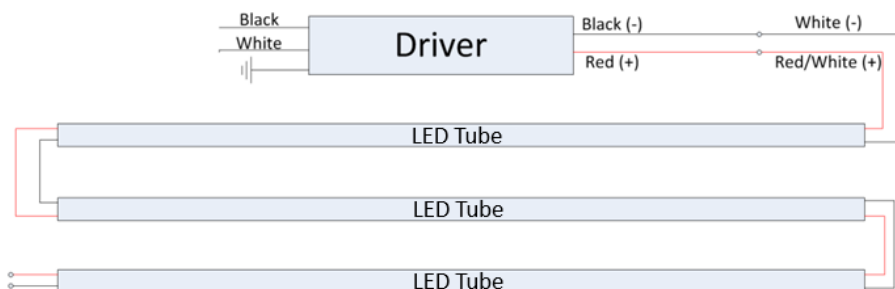


Loading of a standard L24V100UNV-A power supply

Catalog Number	LED Tube Power(W)	Max Qty/100W PS
ST24-865-SS	6	16 Tubes
ST24-865-DS	12	8 Tubes
ST36-865-SS	9	11 Tubes
ST36-865-DS	18	5 Tubes
ST48-865-SS	12	8 Tubes
ST48-865-DS	24	4 Tubes
ST60-865-SS	15	6 Tubes
ST60-865-DS	30	3 Tubes
ST72-865-SS	18	5 Tubes

Catalog Number	LED Tube Power(W)	Max Qty/100W PS
ST72-865-DS	36	2 Tubes
ST84-865-SS	21	4 Tubes
ST84-865-DS	42	2 Tubes
ST96-865-SS	24	4 Tubes
ST96-865-DS	48	2 Tubes
ST108-865-SS	27	3 Tubes
ST108-865-DS	54	1 Tube
ST120-865-SS	30	3 Tubes
ST120-865-DS	60	1 Tube

Wiring Options



Daisy Chain Wiring



Parallel Wiring



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Conditions of Acceptability

The LED Arrays were judged on the basis of the required spacings in the Outline of Investigation for LED Light Sources for Use in Lighting Products, UL 8750.

1. The LED Array modules are intended for connection to an LED Driver with constant voltage, Class 2 output. When the arrays are connected and used with power supplies other than class 2, the need for an additional evaluation shall be considered in the end use product investigation.
2. The LED Array modules shall be installed in compliance with the mounting, spacing, casualty, and the segregation requirements applicable to the ultimate application.
3. The Normal Temperature Test must be performed in the end-use application and the measured temperature should not exceed the maximum RTI rating of the materials used for the construction of the LED Array.
4. The LED Array modules are suitable for use in “DRY” and “DAMP” locations when connected to a Class 2 source of supply.
5. The material of the LED Array End-Cap/holders and the material used for lens were not specified. The suitability of the material of the LED Array End-Cap/holders along with the material for the lens shall be determined in the end-application.

Note: LED sign tube referred to as “LED Array” or “LED Array module” in Conditions of Acceptability



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