



STxx-865-yS

Description: LED Sign Module

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



Ordering Code	Nominal Measurements					
	Length	Configuration	Voltage (V)	Initial Lumens ⁽¹⁾	Power (W)	Lm/W
ST24-865-SS004C	24"	Single Sided	24	680	6	113
ST24-865-DS004C	24"	Double Sided	24	1,360	12	113
ST36-865-SS004C	36"	Single Sided	24	1,020	9	113
ST36-865-DS004C	36"	Double Sided	24	2,040	18	113
ST48-865-SS004C	48"	Single Sided	24	1,360	12	113
ST48-865-DS004C	48"	Double Sided	24	2,720	24	113
ST60-865-SS004C	60"	Single Sided	24	1700	15	113
ST60-865-DS004C	60"	Double Sided	24	3400	30	113
ST72-865-SS004C	72"	Single Sided	24	2,040	18	113
ST72-865-DS004C	72"	Double Sided	24	4,080	36	113
ST84-865-SS004C	84"	Single Sided	24	2,380	21	113
ST84-865-DS004C	84"	Double Sided	24	4,760	42	113
ST96-865-SS004C	96"	Single Sided	24	2,720	24	113
ST96-865-DS004C	96"	Double Sided	24	5,440	48	113
ST108-865-SS004C	108"	Single Sided	24	3,060	27	113
ST108-865-DS004C	108"	Double Sided	24	6,120	54	113
ST120-865-SS004C	120"	Single Sided	24	3,400	30	113
ST120-865-DS004C	120"	Double Sided	24	6,800	60	113

(1) MID Flux Bin Values are shown for CCT of 6500K. Multiply lumens and Lm/W by 0.92 for 3500K. Tolerance of ±6.5% at 25°C.

General Performance Specifications:

- Lumen Maintenance : L70 > 140K Hrs @ 25°C
- Lumen Maintenance : L85 > 60K Hrs @ 25°C
- Color Consistency: < 4 SDCM (6500K)

Application:

- Min. Ambient Operating Temp.: -22°F, -30°C
- Max. Ambient Operating Temp.: 140°F, 60°C
- Ingress Protection rating: IP64

Warranty:

- 5 Year Limited Warranty

Note: Lumen maintenance based on LM80 testing and TM-21 calculation projections

Recommended Drivers:

Driver Part Number	Description
L24V100UNV-A	White Can
D24V100UNV-A	Black Can
L24V100UNV-Q	IP67 Sealed Can

Regulatory:

- UL 8750
- UL 879
- UL 879A
- CSA 250.13
- CSA 207

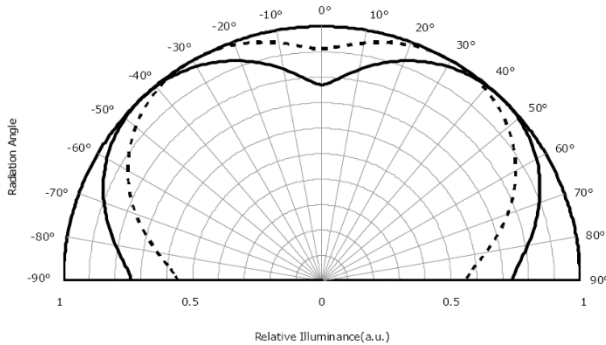


Application and operation performance specification information subject to change without notification.

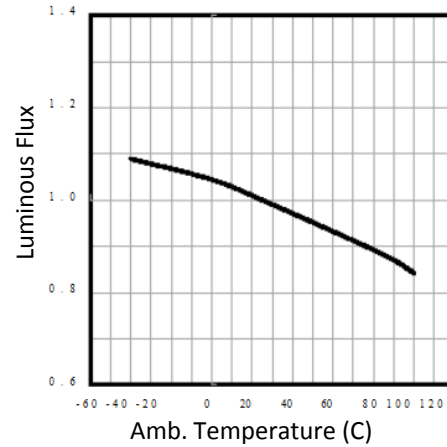


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Photometric Distribution



Relative Lumens vs. Temperature



Installation Guidelines

- Module is to be mounted using standard R17D recessed double contact (RDC) lampholders where the spring tension will hold the module in place. Lampholders are not used for electrical connections.
- Leads that exit the end of the module are used for connection to the 24Vdc supply.
- Module(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 module leads to the power supply. Leads on the opposite end are at the same electrical potential and may be connected in parallel to another module or capped individually.

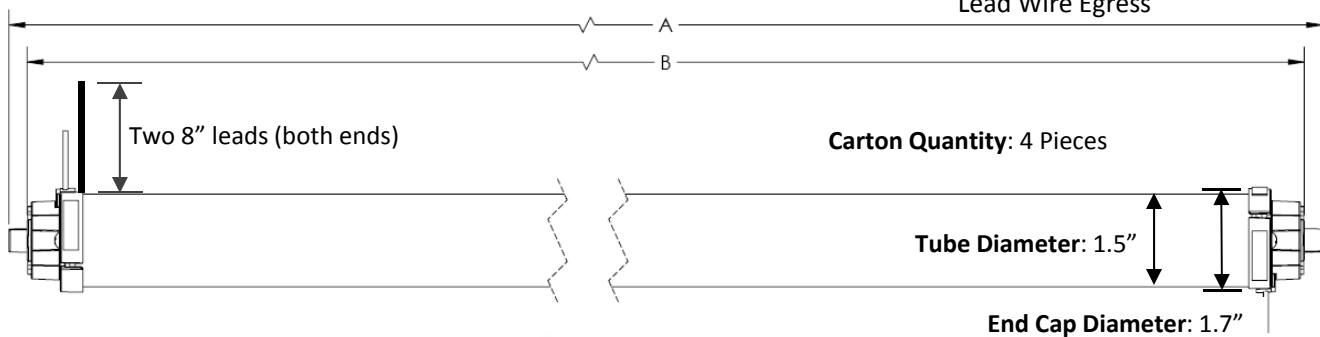
Dimensions	Dim. A	Dim. B
ST24-865-xx	21.8"	21.2"
ST36-865-xx	33.8"	33.2"
ST48-865-xx	45.8"	45.2"
ST60-865-xx	57.8"	57.2"
ST72-865-xx	69.8"	69.2"
ST84-865-xx	81.8"	81.2"
ST96-865-xx	93.8"	93.2"
ST108-865-xx	105.1"	104.5"
ST120-865-xx	117.1"	116.5"



RDC (R17D) Endcap



Lead Wire Egress



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Loading of a standard L24V100UNV-A power supply:

Catalog	Module Power(W)	Max Qty/ 100W PS
ST24-865-SS	6	16 Modules
ST24-865-DS	12	8 Modules
ST36-865-SS	9	11 Modules
ST36-865-DS	18	5 Modules
ST48-865-SS	12	8 Modules
ST48-865-DS	24	4 Modules
ST60-865-SS	15	6 Modules
ST60-865-DS	30	3 Modules
ST72-865-SS	18	5 Modules
ST72-865-DS	36	2 Modules

Catalog	Module Power(W)	Max Qty/ 100W PS
ST84-865-SS	21	4 Modules
ST84-865-DS	42	2 Modules
ST96-865-SS	24	4 Modules
ST96-865-DS	48	2 Modules
ST108-865-SS	27	3 Modules
ST108-865-DS	54	1 Module
ST120-865-SS	30	3 Modules
ST120-865-DS	60	1 Module

Note: Maximum 32' of single sided OR 16' of double sided modules may be used on a 24VDC, 100W power supply.

Wiring Options

Daisy Chain/Series 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.



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