



Description: LED Sign Module

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



Lumen Performance:

Ordering Code	Nominal					
	Length	Configuration	Voltage (V)	Initial Lumens ⁽¹⁾	Power (Watts)	Lm/W
ST24-865-SS004C	24"	Single Sided	24	680	6	113
ST24-865-DS004C	24"	Double Sided	24	1,360	12	113
ST48-865-SS004C	48"	Single Sided	24	1,360	12	113
ST48-865-DS004C	48"	Double Sided	24	2,720	24	113
ST72-865-SS004C	72"	Single Sided	24	2,040	18	113
ST72-865-DS004C	72"	Double Sided	24	4,080	36	113
ST96-865-SS004C	96"	Single Sided	24	2,720	24	113
ST96-865-DS004C	96"	Double Sided	24	5,440	48	113

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

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.: 105°F, 40°C

Regulatory

- UL8750
- CSA250.13-14
- RoHS Compliant

Notes:

- Performance data taken at $T_{amb} = 25^{\circ}\text{C}$
- Power consumption and photometric performance are typical values
- Lumen maintenance value is based on LM80 testing and TM-21 calculation projections.

Mechanical Dimensions

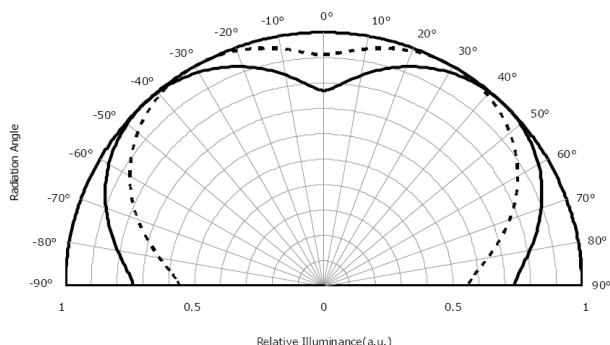
	24"	48"	72"	96"
Length:	21.8"	45.8"	69.8"	93.8"
Diameter:	1.5"	1.5"	1.5"	1.5"
Lead Length:	8" Each			
Carton Quantity:	4 Pieces			



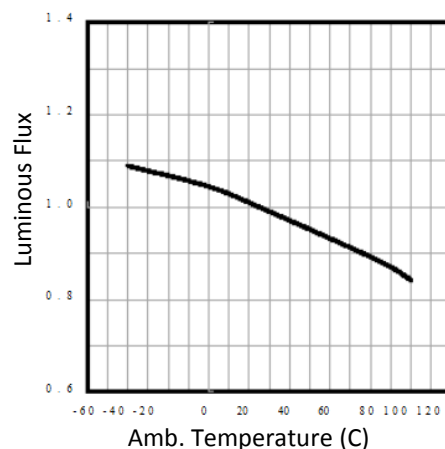
Application and operation performance specification information subject to change without notification.



Photometric Distribution



Relative Lumens vs. Temperature



Installation Guidelines

- This module is to be mounted using standard R17D recessed double contact (RDC) lampholders. The spring tension will hold the module in place. Lamp holders 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 **parallel** fashion.
- It is only necessary to connect one end of the module'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.

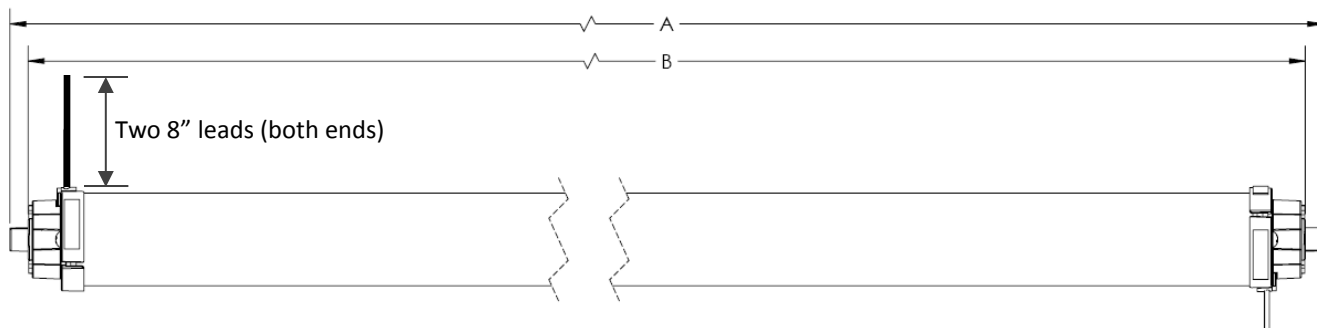


RDC (R17D) Endcap

Dimensions	Dim. A	Dim. B
ST24-865-xx	21.8"	21.5"
ST48-865-xx	45.8"	45.5"
ST72-865-xx	69.8"	69.5"
ST96-865-xx	93.8"	93.5"



Lead Wire Egress



EVERLINE

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



Loading of a standard 24V 100W power supply

Catalog Number	Module Power(W)	Max Qty/100W PS
ST24-865-SS	6	16 Modules
ST24-865-DS	12	8 Modules
ST48-865-SS	12	8 Modules
ST48-865-DS	24	4 Modules
ST72-865-SS	18	4 Modules
ST72-865-DS	36	2 Modules
ST96-865-SS	24	4 Modules
ST96-865-DS	48	2 Modules

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

Wiring Options



Daisy Chain Wiring



Parallel Wiring

EVERLINE

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



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.



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