AlphaSpec™ raises the bar for specification-grade lighting and is **proudly crafted in the USA**. When used with the right channel and lens, it delivers **complete diffusion** and a **spotless appearance**, making it an excellent choice for premium architectural and commercial settings. Despite measuring only **8 mm wide, AlphaSpec™** maintains a **uniform density of 120 LEDs per meter**, ensuring even, consistent illumination.

To accommodate a variety of design requirements, **AlphaSpec™** provides **6 proprietary 2835 LED options (ChromaSure™)**, each with distinct performance attributes (e.g., **chromaticity, efficacy**) and **multiple segment configuration possibilities**. It also allows for **different luminous output levels**, letting you balance brightness and power consumption. A **broad range of CCT choices** makes it possible to fine-tune the exact ambiance you want.

Supported by a **7-year limited warranty, AlphaSpec™** is **engineered and manufactured in America** specifically to serve the American market, guaranteeing top-tier quality, local support, and alignment with all relevant standards.

MADE IN USA
WITH GLOBAL COMPONENTS

c **UL** us
UL E479339

*BAA/BABA Compliance (More Info on Page 2)

8 LEDs / segment 4 oz flexible PCB

- 66.66mm (2.62") Cuttable Segment
- Standard Dimming Range 22.40 - 24 Volts
- High Efficacy Range 120 - 170 lm/w

66.66mm (2.62")
Per Segment

8mm (0.32")

+24V AlphaSpec™ MADE IN USA * +24V +24V By SIRS-E® E479339 c UL us LISTED +24V

2835 ChromaSure™ LED Package - 1 Bin, 6 Variations

1. **3H** - 3 SDCM, 95 CRI, 95 CQS, High Efficacy up to 140 lm/W
2. **3U** - 3 SDCM, 95 CRI, 95 CQS, Ultra Efficacy up to 180 lm/W *(Primary stocked model)*

3. **2H** - 2 SDCM, 96 CRI, 96 CQS, High Efficacy up to 140 lm/W
4. **2U** - 2 SDCM, 96 CRI, 96 CQS, Ultra Efficacy up to 180 lm/W

5. **1H** - 1 SDCM, 98 CRI, 98 CQS, High Efficacy up to 140 lm/W
6. **1U** - 1 SDCM, 98 CRI, 98 CQS, Ultra Efficacy up to 180 lm/W

c **UL** us
UL E479339

Optional Light Outputs - 100-500 lm/ft

- 100, 200, 300, 400, 500 lm/ft.
  (500 lm/ft. is the primary stocked model)

MADE IN USA
WITH GLOBAL COMPONENTS

Comprehensive CCT Selections - 2200K-6500K

- 2200K, 2700K, 3000K, 3500K, 4000K, 5000K, 6500K

Delivering **proven LED strip lighting** with no electrical, chromatic, or color rendering issues. Our unwavering **focus on stability, efficiency, and performance** sets the benchmark in linear LED and lighting control solutions.

*BAA/BABA Compliance: Made in the USA through domestic assembly using globally sourced PCB boards and LED chips. Final qualification for BAA/BABA is subject to an approved nonavailability exemption for these imported components *(as of March 2025, no domestically produced equivalents are available).*

AlphaSpec™ CV Series

Spec Market White 120 LED/m LED Tape

MADE IN USA WITH GLOBAL COMPONENTS

UL E479339

RoHS

Description

Designed, crafted, and rigorously tested exclusively in the USA, our premium LED strip lighting delivers **outstanding illumination, unmatched dependability, and dedicated local support**. Ideal for architects, lighting designers, and installers working on high-end commercial or luxury residential projects, this LED solution meets stringent domestic quality standards. Our **superior-quality product** enhances project value, providing professionals with attractive profit margins while consistently achieving **exceptional lighting performance and customer satisfaction**.

Product Specifications

Input Voltage	24V DC	**Cuttable Segments**	66.66mm (2.62")
Limiting Control Method	CV - Constant Voltage	**LED Strip Length**	16.4 - 100' Spool
Power Consumption	1 - 5 W/ft.	**Tape Width**	8mm (0.32")
LED Type	2835 ChromaSure™	**TM21 (LM80)**	50,000 hrs[1]
LED Density	120 LEDs/m	**Dimming**	22.40-24V
Board Type/Color	4 oz Density Copper, White PCB	**Environmental**	IP 40 (Indoor - Dry) / IP 67 (Water Resistant)
Beam Angle (Degree)	120°	**Connection Type**	Hardwire
Operation Temperature	-20°F to 120°F	**Pre-Soldered Lead Wire**	12" White Plenum
Mounting Method	Non-Porous 3M 5952 VHB	**Country of Origin**	USA Global Components
Color Rendering Index (CRI)	95 - 98 / R9 95-98	**Warranty**	7 Year
Color Quality Grade (CQG)	95 - 98 / TLCI 93-95	**Certifications**	RoHS UL E479339

Electrical Photometrics[2]

[3]

		100 lm / ft	200 lm / ft	300 lm / ft	400 lm / ft	500 lm / ft
2835 - SDCM (1-3) High Efficacy (H) **LED/Seg. (8)**	CCT 2200 - 6500 (AVG) +/- 10%	100	200	300	400	500
	Power Consumption W/ft.	0.90*	1.76*	2.74*	3.28*	4.12*
	Luminous Efficacy (lm/W)	112	114	110	122	122
	Max Run ft.	44	37	34	30	26
2835 - SDCM (1-3) Ultra Efficacy (U) **LED/Seg. (8)**	CCT 2200 - 6500 (AVG) +/- 10%	100	200	300	400	500
	Power Consumption W/ft.	0.70*	1.38*	2.14*	2.56*	3.22*
	Luminous Efficacy (lm/W)	143	145	140	156	156
	Max Run ft.	56	48	44	38	34

1 - After 50,000 hrs: 20% Luminous Flux loss, 10% Chromaticity change, as per LM80-15.
2 - Photometric values obtained from LM-79 report for 5W/ft strips.
3 - Typical values shown. For precise data, see individual LM-79 reports.

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Ordering Guide

ODM	LED/m	LED/segment	SDCM	LED Efficacy High/Ultra	CCT K	lm/ft	IP Rating[4]	Length 16.4-100 ft Spool
S	120	8	3	H	22	100	40	16
		2	U	27	200	67[5]	100
		1		30	300		
				35	400		
				40	500		
				50			
				65			

Product Country of Origin

Product Engineering & Design	USA
Assembled	USA
Quality Control	USA
Product Customization	USA
Technical Support	USA

*Designed and manufactured in the USA using global LED chips and PCB boards.

Notes: [4]IP - Varies on environment application, indoor or outdoor
[5]IP67 only on 16.4' (5m)

*BAA/BABA Compliance: Made in the USA through domestic assembly using globally sourced PCB boards and LED chips. Final qualification for BAA/BABA is subject to an approved nonavailability exemption for these imported components *(as of March 2025, no domestically produced equivalents are available)*.

Mechanical Dimensions for 8 LEDs per Segment

Top View

8 LEDs Per Segment

66.66mm (2.62") Per Segment

8mm (0.32")

+24V   AlphaSpec™   MADE IN USA *   By SIRS-E®   E479339   US LISTED

304mm (12.00")   133.32mm (5.25")

2.80mm (0.11")
5.51mm (0.21")

Anode
+
-
Cathode

+24V   AlphaSpec™   MADE IN USA *   +24V

8.34mm (0.33")

Front View

8mm (0.32")   3.25mm (0.13")

1.60mm (0.06")

3M VHB 5952