

**NEW**

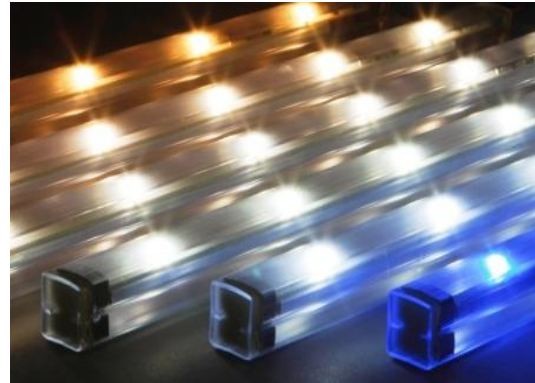


**Energy Efficient, High Quality,  
LED Lighting Products**

**SERIES RIA  
CUSTOM DESIGNED  
LED ILLUMINATION ASSEMBLIES  
with Nichia RIGEL® Power LEDs**

Prolume Series RIA Custom Designed LED Illumination Assemblies are built around the proven platform of the standard Series LIA arrays with the additional enhancement of Rigel® Power LEDs. Key features include...

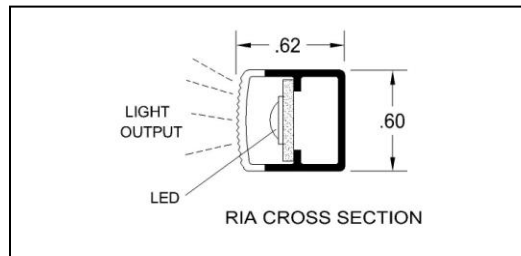
- **Nichia Rigel® Power LEDs**  
Nominally rated 150mA LEDs provide increased light output in a full range of ANSI binned white color temperatures with specified CRI. Color LEDs in Red, Blue and Green are also available. 50,000 hours life to L70 performance.
- **Basic Design**  
Printed wiring boards with surface mounted LEDs on 2" centers and electronics form the basic illumination assembly, which is housed in a sealed, flexible polycarbonate extrusion of application specific continuous lengths of up to 15 feet. Extrusion is UV stabilized polycarbonate with a 94V-2 flammability rating.
- **Mounting**  
Options include VHB tape, stainless steel mounting and channel clips and articulating brackets. Custom metal brackets and channels can be tailored to specific application requirements.
- **Light Distribution**  
Available with 120° beam spread for maximum light distribution. Ribbing on the extrusion enhances uniformity.
- **Circuit and Thermal Management**  
Uniquely designed printed wiring boards with proprietary electronic sensing and control components optimize LED performance and provide critical thermal management.  
**Dimmable.** (Specify)



- **Electrical**  
Assemblies are nominally rated at 24VDC. They are designed for installation using Class 2 wiring methods. A full range of LED drivers are available. See separate catalog sheet.
- **Power**
  - White LEDs – 3.5 Watts per foot
  - Color LEDs – 2 Watts per foot
- **Agency**  
Assemblies are UL Listed for both indoor and wet location use.



**CO-EXTRUSION DETAIL**



HIGHLY INNOVATIVE • TECHNOLOGY BASED • QUALITY LIGHTING PRODUCTS

525 Fan Hill Road • Monroe • Connecticut 06468  
Phone (800) EXIT-LED • FAX (203)268-7855  
[www.prolumeLED.com](http://www.prolumeLED.com)  
email: [info@prolumeled.com](mailto:info@prolumeled.com)

**Fixture Schedule**

Type	Model Number

**Job:**

**Remarks:**

## TECHNICAL / ORDERING INFORMATION

LED SELECTOR / ANSI BINNED					WIRING OPTIONS		
COLOR	CCT Nominal	CRI Typical	Order suffix	Lumens / LED Typical @ 150mA	Order Suffix	Type / Description	
Warm White	2700°K	85	W827	32	18	18 gauge / typical indoor	
Warm White	3000°K	85	W830	32	18D	18 gauge / indoor for dimming	
Neutral White	3500°K	85	N835	32	20	20 gauge / typical display case	
Neutral White	4000°K	85	N840	32	20D	20 gauge / indoor for dimming	
Neutral White	4500°K	70	N745	44	T	20/2 tray cable / indoor, outdoor	
Cool White	5000°K	70	C750	44	TD	20/3 tray cable / for dimming	
Cool White	5700°K	70	C757	44	PG	Plug-Go connectors / indoor	
Cool White	6500°K	70	C765	44	PGD	Plug-Go connectors / dimming	
COLOR	Chromaticity			Order suffix	Lumens / LED Typical @ 60mA	OPG	Outdoor Plug-Go connectors
	x	y	Wavelength				
Red	.700	.299	626nm	R	6	1) Specify termination length when ordering. Consult Factory for runs over 75'. 2) Other LED, CRI, CCT and luminous flux Options may be available. Consult Factory. 3) Specify exact fixture length in inches (5" to 180") when ordering.	
Green	.189	.718	530nm	G	14		
Blue	.133	.075	470nm	B	4		

To Order, Specify...

### SERIES – LENGTH – LED / WIRING (\*INCLUDE LENGTH and TYPE)

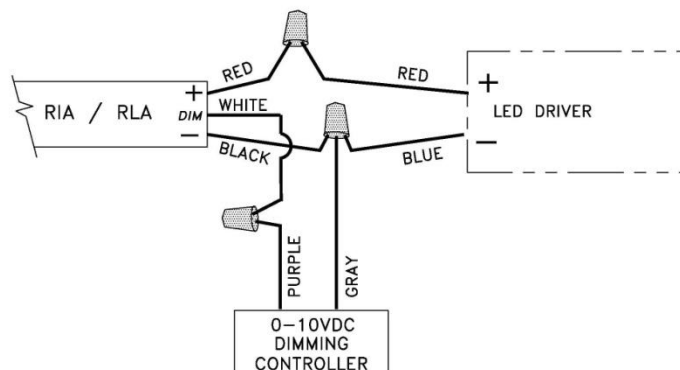
Example...

#### Model RIA-65-W830/10TD

Series **RIA**, **65"** L, **Warm white 85 CRI 3000°K** LEDs, with **10'** Tray cable termination leads for Dimming.

### DIMMING

An additional DIM line in the wiring board is provided to allow fixtures to be dimmed. When dimming is specified, a third wire is provided in the fixture termination to accept a 0 – 10VDC signal from the dimming controller (by others). The controller must be able to sink .5mA per foot of RIA fixture. Less than .5mA will be "off". If the controller cannot sink all the way down to .5mA, a separate control should be used to disconnect the AC from the LED driver to turn the fixture(s) completely off. Wiring is as follows...



(Form RIA012211.Rev10)